

**A Collection of Research Processes for
Genealogy and Proofs**

VOLUME SIX, SECTION 36

Printed Output List of the Execution of
the Shin's Join Simulation

May 5, 1990

by

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Submitted to the Chair of
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```

RSCS  J   RSCSREC   USERID   ORIGIN      1      86...888      4
          11      888888888      44
SHIN     GWUVM      DISTCODE  SYSTEM    111     88      88      444
          11      88      88      4444
SIMULATE LISTING    FILENAME  FILETYPE   11      8888888      44 44
          11      8888888      44 44
05/05/90 18:17:49   FILE CREATION DATE  11      88      88      444444444
          11      88      88      444444444
7237     00009771   SPOOLID    COUNT     111111  888888888      44
          111111  8888888      44
05/05/90 18:18:49   FILE PRINT DATE    111111  8888888      44
A        OA11      CLASS      DEVICE
P1N     OFF       FORMS      DESTINATION

```

```

VV      VV MM      MM
VV      VV MMM     MMM
VV      VV MMMM    MMMM
VV      VV MM MM MM MM
VV      VV MM  MM  MM
VV      VV MM  M  MM
VVV     VVV MM      MM
V       V      MM      MM //SSSSSSS  PPPPPPP
//SS      SS PP      PP
SS      S  PP      PP
SSSSSS  PPPPPPP
SS      SS PP
S      SS PP
SS      SS PP
SSSSSS  PP
//

```

TAG DATA: FILE (6237) ORIGIN GWUUNIV SHIN 5/05/90 18:17:02 E.D.T.

```

RRRRRRRR SSSSSSS  CCCCCC  SSSSSSS  RRRRRRRR EEEEEEEEE  CCCCCC
RRRRRRRRR SSSSSSSS CCCCCCCC SSSSSSSS RRRRRRRRR EEEEEEEEE  CCCCCCCC
RR RR SS SS CC CC SS SS RR RR EE CC CC
RR RR SS CC SS RR RR EE CC
RRRRRRRRR SSSSSSS  CC SSSSSSS  RRRRRRRRR EEEEE  CC
RRRRRRRRR SSSSSSS  CC SSSSSSS  RRRRRRRR EEEEE  CC
RR RR SS SS CC SS RR RR EE CC
RR RR SSSSSSSS CCCCCCCC SSSSSSSS RR RR EEEEEEEEE  CCCCCCCC
RR RR SSSSSSS  CCCCCC  SSSSSSS  RR RR EEEEEEEEE  CCCCCC

```

```

SSSSSSS HH HH IIIIII N NN
SSSSSSSS HH HH IIIIII NN NN
SS SS HH HH II NNN NN
SS HH HH II NNNN NN
SSSSSSS HHHHHHHHH II NN NN NN
SSSSSSS HHHHHHHHH II NN NN NN
SS SS HH HH II NN NNNN
SSSSSSS HH HH IIIIII NN NN
SSSSSSS HH HH IIIIII NN N

```

```
//#SHISIMU JOB (236891,G,5,,,,ALL,SHIN,SIMULATE, ),
// 'SHIN,DONG KEUN',CLASS=U
LOG 18:02:35 CENT 04517--#SHISIMU READ INTO QUEUE U AT 18:02 BEGINNING IN P14 :
  OG 18:13:53 CENT 04517--#SHISIMU $13.51 3669 CARD 9669 SYSOUT 59
// EXEC PASCG
```

```
ASCG PROC LDROPT=NOPRINT,LIBOPT=,GOPARM=
*****
```

```
***
*** AUSTRALIAN ATOMIC ENERGY COMMISSION PASCAL 8000 RELEASE 2.0
***
*** PASCG: COMPILE, LOAD, AND GO
***
*** JOB DECK STRUCTURE FOR AAEC PASCAL:
***
*** ORANGE: //STANDARD JOB CARD
*** YELLOW: // EXEC PASCG
*** YELLOW: //SYSIN DD *
*** WHITE: -- PASCAL PROGRAM --
*** YELLOW: //GO.SYSIN DD... DD CARD FOR DATA TO BE READ FROM
*** STANDARD FILE 'INPUT' (OPTIONAL)
*** YELLOW: //
```

12/8/80 - WHS

```
*****
```

```
XXPASCAL EXEC PGM=PASCAL,PARM='/NOREPORT'
XXSTEPLIB DD DSN=GWU.AECPAS20.PASLIB,DISP=SHR
XX$PASMSGs DD DSN=GWU.AECPAS20.PASMSGs,DISP=SHR
XXSYSRINT DD SYSOUT=A
^XSYSTEM DD DUMMY
  AP@DUMP DD SYSOUT=A
^"SYSGO DD UNIT=SYSDA,DISP=(,PASS),SPACE=(CYL,10),
DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120)
```

```
//SYSIN DD *
```

```
IEF236I ALLOC. FOR #SHISIMU PASCAL
IEF237I 263 ALLOCATED TO STEPLIB
IEF237I 263 ALLOCATED TO $PASMSGs
IEF237I 767 ALLOCATED TO SYSGO
IEF142I - STEP WAS EXECUTED - COND CODE 0000
IEF285I GWU.AECPAS20.PASLIB KEPT
IEF285I VOL SER NOS= USW753.
IEF285I GWU.AECPAS20.PASMSGs KEPT
IEF285I VOL SER NOS= USW753.
IEF285I SYS90125.T180231.RF109.#SHISIMU.R0000001 PASSED
IEF285I VOL SER NOS= USYS75.
IEF373I STEP /PASCAL / START 90125.1802
IEF374I STEP /PASCAL / STOP 90125.1802 CPU 0MIN 01.90SEC STOR VIRT3392K
GWU999I 1443 NON-JCL INPUT STREAM CARD IMAGES
GWU999I 1497 NON-JCL OUTPUT IMAGES (SYSOUT)
GWU999I 263 15 CHANNEL PROGRAMS - DIRECT ACCESS
GWU999I 263 0 CHANNEL PROGRAMS - DIRECT ACCESS
GWU999I 000 0 CHANNEL PROGRAMS
GWU999I 767 10 CHANNEL PROGRAMS - DIRECT ACCESS
```

```
=====END STEP 01=====
```

```
XXGO EXEC PGM=LOADER,PARM='&LDROPT/&LIBOPT/&GOPARM',
^EF653I SUBSTITUTION JCL - PGM=LOADER,PARM='NOPRINT//',
  A COND=(5,LT,PASCAL)
  ^SYSLIN DD DSN=*.PASCAL.SYSGO,DISP=(OLD,DELETE)
  ^SYSLIB DD DSN=GWU.AECPAS20.PASLIB,DISP=SHR
XXP@LOCAL DD UNIT=SYSDA,SPACE=(TRK,(1,1)) MTJ 11/22/85
XXSYSLOUT DD SYSOUT=A
```

XXSYSRINT DD SYSOUT=A
XXP@DUMP DD SYSOUT=A
//GO.SYSIN DD *

IEF236I ALLOC. FOR #SHISIMU GO
237I 767 ALLOCATED TO SYSLIN
IEF237I 263 ALLOCATED TO SYSLIB
IEF237I 767 ALLOCATED TO P@LOCAL
IEF142I - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS90125.T180231.RF109.#SHISIMU.R0000001 DELETED
IEF285I VOL SER NOS= USYS75.
IEF285I GWU.AECPAS20.PASLIB KEPT
IEF285I VOL SER NOS= USW753.
IEF285I SYS90125.T180231.RF109.#SHISIMU.R0000002 DELETED
IEF285I VOL SER NOS= USYS75.
IEF373I STEP /GO / START 90125.1802
IEF374I STEP /GO / STOP 90125.1813 CPU 2MIN 12.89SEC STOR VIRT3392K
GWU999I 2219 NON-JCL INPUT STREAM CARD IMAGES
GWU999I 8172 NON-JCL OUTPUT IMAGES (SYSOUT)
GWU999I 767 12 CHANNEL PROGRAMS - DIRECT ACCESS
GWU999I 263 22 CHANNEL PROGRAMS - DIRECT ACCESS
GWU999I 767 0 CHANNEL PROGRAMS - DIRECT ACCESS
=====END STEP 02=====

IEF298I #SHISIMU SYSOUT=A.
IEF375I JOB /#SHISIMU/ START 90125.1802
IEF376I JOB /#SHISIMU/ STOP 90125.1813 CPU 2MIN 14.79SEC

```

1  0680 -- program SIMULATION (input, output);
2  06A8 --
3  06A8 -- const
4  06A8 --     MAX_NUM_KEYS = 2048;
5  06A8 --     NUM_IDENT_CHAR = 16;
6  06A8 --     MAX_BUCKET_ADDR_BITS = 8;
7  06A8 --     MAX_BOOL_DIGIT = 13;
8  06A8 --     NUM_ASCII_CHAR = 70;
9  06A8 --
10 06A8 --     NUM_FIRST_EXOR = 8;
11 06A8 --     NUM_SECOND_EXOR = 4;
12 06A8 --     NUM_THIRD_EXOR = 2;
13 06A8 --
14 06A8 --     BUCKET_SIZE = 255;
15 06A8 --
16 06A8 --     SIM_DEBUG = true;
17 06A8 --     S_DEBUGGED = false;
18 06A8 --
19 06A8 --     MAX_STACK_SIZE = 5;
20 06A8 --     NUL = 999;
21 06A8 --     EMPTY = -1;
22 06A8 --     DISCRIMINATOR = 'A';
23 06A8 --
24 06A8 --
25 06A8 --
26 06A8 -- type
27 06A8 --     KEY_ARRAY_TYPE = array (1..NUM_IDENT_CHAR.) of char;
28 06A8 --
29 06A8 --     PRIME_BOOL_TYPE = array (1..MAX_BOOL_DIGIT.) of boolean;
30 06A8 --
31 06A8 --     CHAR_RECORD_TYPE = record
32 06A8 --         ch : char;
33 06A8 --         ASCII_num : integer;
34 06A8 --         prime_num : integer;
35 06A8 --         bool_prime : PRIME_BOOL_TYPE;
36 06A8 --     end;
37 06A8 --
38 06A8 --     ASCII_TABLE = array (1..NUM_IDENT_CHAR, 1..NUM_ASCII_CHAR.) of
39 06A8 --         CHAR_RECORD_TYPE;
40 06A8 --
41 06A8 --     BOOL_PRIME_KEY_TYPE = array (1..NUM_IDENT_CHAR.) of
42 06A8 --         record
43 06A8 --             bool_prime : PRIME_BOOL_TYPE;
44 06A8 --         end;
45 06A8 --
46 06A8 --     STACK_PRIME_BOOL_TYPE = array (1..MAX_STACK_SIZE.) of
47 06A8 --         record
48 06A8 --             Bool_Key_Arr : BOOL_PRIME_KEY_TYPE;
49 06A8 --         end;
50 06A8 --
51 06A8 --     FIRST_EXOR_ARR_TYPE = array (1..NUM_FIRST_EXOR.) of boolean;
52 06A8 --
53 06A8 --     SECOND_EXOR_ARR_TYPE = array (1..NUM_SECOND_EXOR.) of boolean;
54 06A8 --
55 06A8 --     THIRD_EXOR_ARR_TYPE = array (1..NUM_THIRD_EXOR.) of boolean;
56 06A8 --
57 06A8 --     HASHED_KEY_REG_TYPE = array (1..MAX_BUCKET_ADDR_BITS.) of
58 06A8 --

```

```

59 06A8 --      HASH_ADDR_TYPE = array (.1..MAX_BOOL_DIGIT.) of boolean;
60 06A8 --
61 06A8 --      CODER_TYPE = record
62 06A8 --          Hashed_Addr : HASH_ADDR_TYPE;
63 06A8 --          end;
64 06A8 --
65 06A8 --      HASH_CODER_STACK = array (.1..MAX_STACK_SIZE.) of CODER_TYPE;
66 06A8 --
67 06A8 --      LINK = @KEY_RECORD;
68 06A8 --      KEY_RECORD = record
69 06A8 --          Key_Arr : KEY_ARRAY_TYPE;
70 06A8 --          First_Name_Arr : KEY_ARRAY_TYPE;
71 06A8 --          next : LINK;
72 06A8 --          end;
73 06A8 --
74 06A8 --      BUCKET_POINTER_ARRAY = array (.0..BUCKET_SIZE.) of LINK;
75 06A8 --
76 06A8 --      BIT_ARR_TYPE = array (.0..BUCKET_SIZE.) of boolean;
77 06A8 --
78 06A8 --      BIT_ARR_RECORD = record
79 06A8 --          Bit_Arr : BIT_ARR_TYPE;
80 06A8 --          Next_Bit : integer;
81 06A8 --          Source_Bucket,
82 06A8 --          Target_Bucket : BUCKET_POINTER_ARRAY;
83 06A8 --          end;
84 06A8 --
85 06A8 --      BIT_ARR_TABLE = array (.1..MAX_STACK_SIZE.) of BIT_ARR_RECORD;
86 06A8 --
87 06A8 --      ADDR_TYPE_ARRAY = array (.1..MAX_STACK_SIZE.) of integer;
88 06A8 --
89 06A8 --      ASCII_RECORD = record
90 06A8 --          ASCII_Arr : ASCII_TABLE;
91 06A8 --          end;
92 06A8 --
93 06A8 --      TYPE_ASCII_STACK = array (.1..MAX_STACK_SIZE.) of ASCII_RECORD;
94 06A8 --
95 06A8 --
96 06A8 --
97 06A8 --
98 06A8 --
99 06A8 --      var
100 06A8 --
101 06A8 --          ASCII_Arr : ASCII_TABLE;
102 11EA8 --
103 11EA8 --          Key_Char : char;
104 11EAC --
105 11EAC --          Bool_Stack : STACK_PRIME_BOOL_TYPE;
106 12EEC --
107 12EEC --          EXOR1_Arr : FIRST_EXOR_ARR_TYPE;
108 12F0C --          EXOR2_Arr : SECOND_EXOR_ARR_TYPE;
109 12F1C --          EXOR3_Arr : THIRD_EXOR_ARR_TYPE;
110 12F24 --
111 12F24 --          Code_Stack : HASH_CODER_STACK;
112 13028 --
113 13028 --          Stk_Pt : integer;
114 1302C --          Hd_Source_Pt, Hd_Target_Pt : LINK;
115 13034 --          stack : BIT_ARR_TABLE;
116 16C48 --          finish : boolean;

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117 16C4C --      Addr_Num : integer;
118 16C50 --      Hash_Value: integer;
119 16C54 --
   20 16C54 --      Source_Count, Target_Count, Result_Count, Hash_Count :
121 16C64 --
122 16C64 --      ASCII_Stack : TYPE_ASCII_STACK;
123 6E464 --
124 6E464 --
125 6E464 --
126 6E464 --
127 6E464 --
128 6E464 -- A  procedure Int_To_Bool_Convert (number:integer; var Bool_Arr;
129 0040 --                                     PRIME_BOC
130 0048 --
131 0048 --      var i : integer;
132 004C --
133 0000 0- A  begin
134 0012 --      for i := 1 to MAX_BOOL_DIGIT do
135 0030 --          Bool_Arr(.i.) := false;
136 0072 --
137 0072 --      i := 1;
138 007A --      while (number >= 2) and (i <= MAX_BOOL_DIGIT) do
139 00B2 1-          begin
140 00B2 --
141 00B2 --              if (number mod 2) =1 then
142 00CC --                  Bool_Arr(.i.) := true
143 00DE --              else
144 00F2 --                  Bool_Arr(.i.) := false;
145 0112 --
146 0112 --              number := number div 2;
147 0128 --              i := i + 1;
148 013A -1          end;
149 013E --
150 013E --      if (number = 1) and (i <= MAX_BOOL_DIGIT) then
151 0176 --          Bool_Arr(.i.) := true;
152 0198 --
153 0198 -0 A  end;
154 01B0 --
155 01B0 --
156 01B0 --
157 01B0 --
158 01B0 --
159 01B0 -- A  procedure Initialization;
160 0040 --
161 0040 --      const
162 0040 --          char_divisor = 20;
163 0040 --          number_divisor = 10;
164 0040 --
165 0040 --      var i, j, k, n : integer;
166 0050 --          number : integer;
167 0054 --          character : char;
168 0058 --
169 0000 0- A  begin
170 0012 --
   71 0012 --      for n := 1 to MAX_STACK_SIZE do
172 0030 1-          begin
173 0030 --
174 0030 --              with ASCII_Stack(.n.) do

```

```

175 0050 2-      begin
176 0050 --
177 0050 --      for i := 1 to NUM_IDENT_CHAR do
178 006E 3-      begin
179 006E --
180 006E --          for j := 1 to NUM_ASCII_CHAR do
181 008C 4-          begin
182 008C --
183 008C --              with ASCII_Arr(.i,j.) do
184 00C0 5-              begin
185 00C0 --                  ch := '?';
186 00C8 --                  prime_num := NUL;
187 00D0 --                  ASCII_num := NUL;
188 00D8 --
189 00D8 --                      for k := 1 to MAX_BOOL_DIGIT do
190 00F6 --                          bool_prime(.k.) := false;
191 0130 -5                      end;
192 0130 -4                      end;
193 0152 --
194 0152 -3          end;
195 0174 --
196 0174 -2      end;
197 0174 -1      end;
198 0196 --
199 0196 --      for j := 1 to NUM_ASCII_CHAR do
200 01B4 1-      begin
201 01B4 --          read(character);
202 01F0 --
203 01F0 --          for i := 1 to NUM_IDENT_CHAR do
204 020E 2-          begin
205 020E --              for k := 1 to MAX_STACK_SIZE do
206 022C 3-              begin
207 022C --                  with ASCII_Stack(.k.) do
208 024C --                      ASCII_Arr(.i,j.).ch := character;
209 028C -3                  end;
210 02AE -2              end;
211 02D0 --
212 02D0 --                  if j mod char_divisor = 0 then
213 02E4 --                      readln;
214 02F0 -1          end;
215 0312 --
216 0312 --      readln;
217 031E --
218 031E --
219 031E --
220 031E --      for j :=1 to NUM_ASCII_CHAR do
221 033C 1-      begin
222 033C --          read(number);
223 034E --          if number > 64 then number := number - 64;
224 0372 --
225 0372 --          for i := 1 to NUM_IDENT_CHAR do
226 0390 2-          begin
227 0390 --              for k := 1 to MAX_STACK_SIZE do
228 03AE 3-              begin
229 03AE --                  with ASCII_Stack(.k.) do
230 03CE --                      ASCII_Arr(.i,j.).ASCII_num := number;
231 040E -3                  end;
232 0430 -2          end;

```



```

233 0452 --
234 0452 --           if j mod number_divisor = 0 then
235 0466 --               readln;
   36 0472 --
237 0472 -1           end;
238 0494 --
239 0494 --
240 0494 --   for i := 1 to NUM_IDENT_CHAR do
241 04B2 1-       begin
242 04B2 --
243 04B2 --           for j := 1 to NUM_ASCII_CHAR do
244 04D0 2-       begin
245 04D0 --
246 04D0 --               with ASCII_Stack(.1.).ASCII_Arr(.i, j.) do
247 0504 3-       begin
248 0504 --
249 0504 --                   read(prime_num);
250 0516 --
251 0516 --                   if j mod number_divisor = 0 then
252 052A --                       readln;
253 0536 --
254 0536 --                       Int_To_Bool_Convert(prime_num, bool_prime);
255 0550 --
256 0550 -3       end; {with}
257 0550 -2       end; {for}
258 0572 --
259 0572 --   readln;
260 057E -1       end; {for}
261 05A0 --
262 05A0 --   for n := 2 to MAX_STACK_SIZE do
263 05BE 1-       begin
264 05BE --           with ASCII_STACK(.n.) do
265 05DE 2-       begin
266 05DE --               for j := 1 to NUM_ASCII_CHAR do
267 05FC 3-       begin
268 05FC --                   with ASCII_Arr(.1,j.) do
269 0616 4-       begin
270 0616 --                       read(prime_num);
271 0628 --                       if j mod number_divisor = 0 then
272 063C --                           readln;
273 0648 --                           Int_To_Bool_Convert(prime_num, bool_prime);
274 0662 -4       end;
275 0662 -3       end;
276 0684 --
277 0684 --   readln;
278 0690 --
279 0690 --   for i := 1 to NUM_IDENT_CHAR do
280 06AE 3-       begin
281 06AE --           for j := 1 to NUM_ASCII_CHAR do
282 06CC 4-       begin
283 06CC --               ASCII_Arr(.i,j.).prime_num :=
284 06F8 --                   ASCII_Arr(.1,j.).prime_num;
285 0724 --
286 0724 --               for k := 1 to MAX_BOOL_DIGIT do
287 0742 --                   ASCII_Arr(.i,j.).bool_prime(k) :=
288 0782 --                       ASCII_Arr(.1,j.).bool_prime(k);
289 07E4 -4       end;
290 0806 -3       end;

```

```

291 0828 -2          end; {with}
292 0828 -1          end; {for}
293 084A --
   74 084A --
295 084A --          Stk_Pt := 1;
296 0858 --          finish := false;
297 0864 --          Addr_Num := NUL;
298 0872 --
299 0872 --          for i := 1 to MAX_STACK_SIZE do
300 0890 1-          begin
301 0890 --              with stack(.i.) do
302 08B0 2-          begin
303 08B0 --                  for j := 0 to BUCKET_SIZE do
304 08CC 3-          begin
305 08CC --                      Bit_Arr(.j.) := false;
306 08E4 --                      Source_Bucket(.j.) := nil;
307 08FC --                      Target_Bucket(.j.) := nil;
308 0914 -3          end;
309 0936 --                      Next_Bit := NUL;
310 093E -2          end; {with}
311 093E -1          end; {for}
312 0960 --
313 0960 --          Hd_Source_Pt := nil;
314 096C --          Hd_Target_Pt := nil;
315 0978 --
316 0978 --          Hash_Count := 0;
317 0984 --          Source_Count := 0;
318 0990 --          Target_Count := 0;
319 099C --          Result_Count := 0;
   20 09A8 --
321 09A8 -0 A end;
322 0A04 --
323 0A04 --
324 0A04 --
325 0A04 --
326 0A04 --
327 0A04 --
328 0A04 --
329 0A04 --
330 0A04 --
331 0A04 -- A procedure Form_Source_And_Target_Relations;
332 0040 --
333 0040 -- var
334 0040 --     Key_Pt : LINK;
335 0044 --     Char_No_First, Char_No : integer;
336 004C --     Source_Target_Flag, Target_Flag, Last_Name_Flag : boole
337 0058 --     Key_No : integer;
338 005C --
339 005C --     {For Debuggin Purpose}
340 005C --     k1, k2 : integer;
341 0064 --     pt1, pt2 : LINK;
342 006C --
343 006C --
344 006C --
   45 006C --
   46 006C --
347 006C --
348 006C --

```

```
349 006C -- B procedure Init_While_Do_Loop;
350 0040 --
351 0040 -- var i: integer;
   52 0044 --
353 0044 --
354 0000 0- B begin
355 0012 --
356 0012 -- Char_No := 1;
357 001A --
358 001A -- new(Key_Pt);
359 0028 --
360 0028 -- for i := 1 to NUM_IDENT_CHAR do
361 0046 1- begin
362 0046 -- Key_Pt@.Key_Arr(.i.) := ' ';
363 0070 -- Key_Pt@.First_Name_Arr(.i.) := ' ';
364 0096 -1 end;
365 00B8 --
366 00B8 -- Source_Target_Flag := false;
367 00BE -- Target_Flag := false;
368 00C4 -- Last_Name_Flag := true;
369 00CC -- Char_No_First := 1;
370 00D4 -0 B end;
371 00E8 --
372 00E8 --
373 00E8 --
374 00E8 --
375 00E8 -- B function More_Chars_Left_For_Key : boolean;
376 0048 --
377 0000 0- B begin
378 0018 --
379 0018 -- if (((Char_No > NUM_IDENT_CHAR) or (Char_No_First > NUM_1
380 004A -- or eoln) or eof) then
381 0094 1- begin
382 0094 -- More_Chars_Left_For_Key := false;
383 009A -- readln;
384 00A6 -1 end
385 00A6 -- else
386 00AA -- More_Chars_Left_For_Key := true;
387 00B2 -0 B end;
388 00D4 --
389 00D4 --
390 00D4 --
391 00D4 --
392 00D4 --
393 00D4 --
394 00D4 --
395 00D4 --
396 00D4 -- B procedure Read_A_Char;
397 0000 0- B begin
398 0012 -- read(Key_Char);
399 0054 --
400 0054 -- if Last_Name_Flag then
401 0064 1- begin
402 0064 -- Key_Pt@.Key_Arr(.Char_No.) := Key_Char;
403 009A -- Char_No := Char_No + 1;
404 00AC -1 end
405 00AC -- else
406 00B0 1- begin
```

```

407 00B0 -- Key_Pt@.First_Name_Arr(.Char_No_First.) := Key_Cha
408 00E2 -- Char_No_First := Char_No_First + 1;
409 00F4 -1 end;
10 00F4 --
411 00F4 --
412 00F4 -- if (Key_Char = ' ') and (not Source_Target_Flag) then
413 0128 1- begin
414 0128 -- read(Key_Char);
415 016A -- if ord(Key_Char) > ord(DISCRIMINATOR) then
416 0182 2- begin
417 0182 -- Target_Flag := true;
418 018A -2 end;
419 018A -- Key_Pt@.First_Name_Arr(.Char_No_First.) := Key_Cha
420 01BC -- Char_No_First := Char_No_First + 1;
421 01CE -- Source_Target_Flag := true;
422 01D6 -- Last_Name_Flag := false;
423 01DC -1 end;
424 01DC -0 B end;
425 01F8 --
426 01F8 --
427 01F8 --
428 01F8 --
429 01F8 --
430 01F8 --
431 01F8 --
432 01F8 --
433 01F8 --
434 01F8 --
435 01F8 --
436 01F8 -- B procedure Attach_Key_To_Source_Or_Target_Relations;
437 0040 --
438 0000 0- B begin
439 0012 -- if Target_Flag then
440 0022 1- begin
441 0022 -- Key_Pt@.next := Hd_Target_Pt;
442 0044 -- Hd_Target_Pt := Key_Pt;
443 005C -- Target_Count := Target_Count + 1;
444 007A -1 end
445 007A -- else
446 007E 1- begin
447 007E -- Key_Pt@.next := Hd_Source_Pt;
448 00A0 -- Hd_Source_Pt := Key_Pt;
449 00B8 -- Source_Count := Source_Count + 1;
450 00D6 -1 end;
451 00D6 -0 B end;
452 00EC --
453 00EC --
454 00EC --
455 00EC --
456 00EC --
457 00EC -- {----- Form_Source_And_Target_Relations -----}
458 00EC --
459 0000 0- A begin
460 0012 -- for Key_No := 1 to MAX_NUM_KEYS do
461 0030 1- begin
462 0030 -- Init_While_Do_Loop;
463 0034 -- While More_Chars_Left_For_Key do
464 0042 2- begin

```

```

465 0042 --           Read_A_Char;
466 0046 -2           end;
467 004A --           Attach_Key_To_Source_Or_Target_Relation;
   58 004E -1           end;
*69 0070 --
470 0070 --           writeln;
471 007C --           write(' If the first character of a first name is between
472 0094 --           writeln('and "', DISCRIMINATOR,'"');
473 00F6 --           writeln(' the name will be included in the source relation
474 0114 --           write(' Otherwise, the name will be included');
475 012C --           writeln(' in the target relation.');
```

```

476 014A --           writeln;
477 0156 --
478 0156 --           if SIM_DEBUG then
479 0160 1-           begin
480 0160 --           writeln;
481 016C --           write (' -----SOURCE-----'
482 0184 --           writeln ('TARGET-----');
483 01A2 --           writeln;
484 01AE --           pt1 := Hd_Source_Pt;
485 01C6 --           pt2 := Hd_Target_Pt;
486 01DE --           k1 := 1;
487 01E6 --           while ((pt1 <> nil) or (pt2 <> nil)) and (k1 <= MAX_NUM_KE
488 0238 2-           begin
489 0238 --           write(' ');
490 0270 --           if pt1 <> nil then
491 0282 3-           begin
492 0282 --           for k2 := 1 to NUM_IDENT_CHAR do
493 02A0 --           write(pt1@.Key_Arr(.k2.));
   94 0322 --           for k2 := 1 to NUM_IDENT_CHAR do
495 0340 --           write(pt1@.First_Name_Arr(.k2.));
496 03BE --           if pt1@.next <> nil then
497 03DA --           pt1 := pt1@.next
498 03E4 --           else
499 03FA --           pt1 := nil;
500 0400 -3           end
501 0400 --           else
502 0404 3-           begin
503 0404 --           for k2 := 1 to NUM_IDENT_CHAR*2 do
504 0432 --           write(' ');
505 048C -3           end;
506 048C --
507 048C --           write(' ');
508 04A4 --           if pt2 <> nil then
509 04B6 3-           begin
510 04B6 --           for k2 := 1 to NUM_IDENT_CHAR do
511 04D4 --           write(pt2@.Key_Arr(.k2.));
512 0556 --           for k2 := 1 to NUM_IDENT_CHAR do
513 0574 --           write(pt2@.First_Name_Arr(.k2.));
514 05F2 --           if pt2@.next <> nil then
515 060E --           pt2 := pt2@.next
516 0618 --           else
517 062E --           pt2 := nil;
518 0634 -3           end;
   19 0634 --
   20 0634 --           writeln;
521 0640 --           k1 := k1 + 1;
522 0652 --
```

```

523 0652 -2      end;
524 0656 -1      end;
525 0656 -0 A    end;
526 07A4 --
527 07A4 --
528 07A4 --
529 07A4 --
530 07A4 --
531 07A4 --
532 07A4 --
533 07A4 --
534 07A4 --
535 07A4 --
536 07A4 --
537 07A4 --
538 07A4 --
539 07A4 --
540 07A4 --
541 07A4 -- A    procedure Hash_Source_And_Target_Relations;
542 0040 --
543 0040 --      var
544 0040 --          point : LINK;
545 0044 --          address : integer;
546 0048 --          Key_Char : char;
547 004C --          index : integer;
548 0050 --          i, j : integer;
549 0058 --          Source_Flag : boolean;
550 005C --          Addr_Array : Addr_Type_Array;
551 0070 --          ok : boolean;
552 0074 --          pt1 : LINK;
553 0078 --
554 0078 --
555 0078 --
556 0078 -- B    procedure Hash_Relation (pt : LINK; Source_Relation : boolean;
557 0048 --
558 0048 --      var
559 0048 --          Char_No, Bit_No : integer;
560 0050 --          Key_Pt : LINK;
561 0054 --          Next_Pt : LINK;
562 0058 --          i : integer;
563 005C --          Coder_No : integer;
564 0060 --
565 0060 --
566 0060 --
567 0060 --
568 0060 -- C    procedure Look_Up_Char_In_Prime_Num_Table(var idx:integer);
569 0044 --
570 0044 --      var found : boolean;
571 0048 --          j : integer;
572 004C --
573 0000 0- C    begin
574 0012 --          j := 1;
575 001A --          found := false;
576 0020 1-      repeat
577 0020 --          if ASCII_Stack(.Stk_Pt.).ASCII_Arr(.Char_No,j.).ch = 0
578 008C 2-          begin
579 008C --              found := true;
580 0094 --              idx := j;

```

```

581 00A6 -2          end
582 00A6 --          else
583 00AA 2-          begin
584 00AA --              j := j + 1;
585 00BC -2          end;
586 00BC -1          until found or (j > NUM_ASCII_CHAR);
587 00E6 --
588 00E6 --          if (j > NUM_ASCII_CHAR) and (not found) then
589 0114 --              idx := 64;
590 0120 --
591 0120 -0 C        end;
592 0140 --
593 0140 --
594 0140 --
595 0140 --
596 0140 --
597 0140 --
598 0140 -- C        procedure Save_Binary_Prime_Num(idx: integer);
599 0044 --
600 0044 --          var i, j : integer;
601 004C --
602 0000 0- C        begin
603 0012 --
604 0012 --          for i := Stk_Pt to MAX_STACK_SIZE do
605 003C 1-              begin
606 003C --                  with Bool_Stack(.i.).Bool_Key_Arr(.Char_No.) do
607 0076 2-                      begin
608 0076 --
609 0076 --                  for j := 1 to MAX_BOOL_DIGIT do
610 0094 3-                      begin
611 0094 --                          with ASCII_Stack(.i.) do
612 00B4 --                              bool_prime(.j.) := ASCII_Arr(.Char_No,idx.).bool_p
613 0120 -3                              end;
614 0142 --
615 0142 -2              end; {with}
616 0142 -1          end;
617 0164 --
618 0164 -0 C        end;
619 019C --
620 019C --
621 019C --
622 019C --
623 019C --
624 019C --
625 019C --
626 019C --
627 019C --
628 019C --
629 019C --
630 019C --
631 019C -- C        function EX_OR (Bit_X, Bit_Y: boolean): boolean;
632 0050 --
633 0000 0- C        begin
634 0018 --
635 0018 --          if Bit_X and Bit_Y then EX_OR := false
636 0034 --
637 0034 --          else if Bit_X and (not Bit_Y) then EX_OR := true
638 005E --

```

```

639 005E --           else if (not Bit_X) and Bit_Y then EX_OR := true
640 008A --
641 008A --           else if (not Bit_X) and (not Bit_Y) then EX_OR := false
642 00C0 --
643 00C0 -0 C end;
644 00DC --
645 00DC --
646 00DC --
647 00DC --
648 00DC --
649 00DC --
650 00DC --
651 00DC -- C procedure First_Level_Ex_Oring(Code_No : integer);
652 0044 --
653 0044 --     var i, j : integer;
654 004C --
655 0000 0- C begin
656 0012 --
657 0012 --         i := 1;
658 001A --         j := 1;
659 0022 --
660 0022 1-     repeat
661 0022 --         with Bool_Stack(.Code_No.) do
662 0042 --             EXOR1_Arr(.j.) := EX_OR(Bool_Key_Arr(.i.).bool_pri
663 0080 --                 ,Bool_Key_Arr(.i+1.).bool_prime(.Bit_No.));
664 00F0 --             i := i + 2;
665 0102 --             j := j + 1;
666 0114 -1         until (j > NUM_FIRST_EXOR);
667 0126 --
668 0126 -0 C end;
669 0150 --
670 0150 --
671 0150 --
672 0150 --
673 0150 --
674 0150 --
675 0150 --
676 0150 --
677 0150 --
678 0150 -- C procedure Second_Level_Ex_Oring;
679 0040 --
680 0040 --     var i, j : integer;
681 0048 --
682 0000 0- C begin
683 0012 --
684 0012 --         i := 1;
685 001A --         j := 1;
686 0022 --
687 0022 1-     repeat
688 0022 --         EXOR2_Arr(.j.) := EX_OR(EXOR1_Arr(.i.), EXOR1_Arr
689 009C --             i := i + 2;
690 00AE --             j := j + 1;
691 00C0 -1         until (j > NUM_SECOND_EXOR);
692 00D2 --
693 00D2 -0 C end;
694 00EC --
695 00EC --
696 00EC --

```



```

697 00EC --
698 00EC --
699 00EC --
  00 00EC --
 01 00EC --
702 00EC -- C procedure Third_Level_Ex_Oring;
703 0040 -- var i, j : integer;
704 0048 --
705 0000 0- C begin
706 0012 --
707 0012 --     i := 1;
708 001A --     j := 1;
709 0022 --
710 0022 1-     repeat
711 0022 --         EXOR3_Arr(.j.) := EX_OR(EXOR2_Arr(.i.), EXOR2_Arr(
712 009C --
713 009C --         i := i + 2;
714 00AE --         j := j + 1;
715 00C0 -1     until (j > NUM_THIRD_EXOR);
716 00D2 --
717 00D2 -0 C end;
718 00E8 --
719 00E8 --
720 00E8 --
721 00E8 --
722 00E8 --
723 00E8 --
724 00E8 --
725 00E8 --
  26 00E8 --
727 00E8 -- C procedure Last_Ex_Oring_And_Store_An_Addr_Bit(Code_No : inte
728 0044 --
729 0000 0- C begin
730 0012 --     with Code_Stack(.Code_No.) do
731 0032 --         Hashed_Addr(.Bit_No.) := EX_OR(EXOR3_Arr(.1.), EXOR3_Ar
732 007E -0 C end;
733 0098 --
734 0098 --
735 0098 --
736 0098 --
737 0098 --
738 0098 --
739 0098 --
740 0098 --
741 0098 --
742 0098 -- C procedure Bool_To_Int_Convert (var addrs : Addr_Type_Array);
743 0044 --
744 0044 --     var sum : integer;
745 0048 --     i, j : integer;
746 0050 --     offset : integer;
747 0054 --
748 0000 0- C begin
749 0012 --     for i := 1 to MAX_STACK_SIZE do
750 0030 1-         begin
751 0030 --             addrs(.i.) := NUL;
752 0052 -1         end;
753 0074 --
754 0074 --     for i := Stk_Pt to MAX_STACK_SIZE do

```

```

755 009E 1-      begin
756 009E --      sum := 0;
757 00A4 --      for j := MAX_BUCKET_ADDR_BITS+Stk_Pt downto 1+Stk_
758 00E8 2-      begin
759 00E8 --          with Code_Stack(.i.) do
760 0108 3-          begin
761 0108 --              if Hashed_Addr(.j.) then
762 0130 --                  sum := 2 * sum + 1
763 0144 --              else
764 0150 --                  sum := 2 * sum;
765 0168 -3          end;
766 0168 -2      end;
767 018A --      addr(.i.) := sum;
768 01B2 -1      end;
769 01D4 -0 C end;
770 01FC --
771 01FC --
772 01FC --
773 01FC --
774 01FC --
775 01FC --
776 01FC --
777 01FC --
778 01FC --
779 01FC --
780 01FC --
781 01FC --
782 01FC --
783 01FC --      {----- Hash_Relation -----}
784 01FC --
785 0000 0- B begin
786 0012 --      while pt <> nil do
787 0024 1-          begin
788 0024 --              for Char_No := 1 to NUM_IDENT_CHAR do
789 0042 2-                  begin
790 0042 --                      Key_Char := pt@.Key_Arr(.Char_No.);
791 0072 --
792 0072 --                      {Read character by character for a key looking
793 0072 --                       corresponding prime number and convert it to bin
794 0072 --                       Look_Up_Char_In_Prime_Num_Table(index);
795 007E --
796 007E --                       Save_Binary_Prime_Num(index);
797 0090 --
798 0090 -2          end;
799 00B2 --
800 00B2 --
801 00B2 --      for Coder_No := Stk_Pt to MAX_STACK_SIZE do
802 00DC 2-          begin
803 00DC --
804 00DC --      {Get the first digit of the binary prime numbers w
805 00DC --       converted from a character, and do the Exclusive-
806 00DC --       to get the first bit for the hashed address. Repe
807 00DC --       process up to the last digit.}
808 00DC --
809 00DC --          for Bit_No :=1 to MAX_BOOL_DIGIT do
810 00FA --
811 00FA 3-          begin
812 00FA --              First_Level_Ex_Oring(Coder_No);

```

```

813 0106 -- Second_Level_Ex_Oring;
814 010A -- Third_Level_Ex_Oring;
815 010E -- Last_Ex_Oring_And_Store_An_Addr_Bit(Code:
916 011A -3 end;
J17 013C -2 end;
818 015E --
819 015E -- Bool_To_Int_Convert(Addr_Array);
820 016A --
821 016A -- Hash_Count := Hash_Count + 1;
822 0188 --
823 0188 -- if SIM_DEBUG then
824 0192 2- begin
825 0192 -- write(' ');
826 01CA -- for i:= 1 to NUM_IDENT_CHAR do
827 01E8 -- write(pt@.Key_Arr(i));
828 026A --
829 026A --
830 026A -- for i := 1 to MAX_STACK_SIZE do
831 0288 -- write(Addr_Array(i):7);
832 02DA -- writeln;
833 02E6 -2 end;
834 02E6 --
835 02E6 -- Key_Pt := pt;
836 02F8 -- Next_Pt := pt@.next;
837 0314 -- if Source_Relation then
838 0324 2- begin
839 0324 -- with stack(.Stk_Pt.) do
840 034A 3- begin
841 034A -- Key_Pt@.next := Source_Bucket
342 0354 -- (.Addr_Array(.Stk_
843 0390 -- Source_Bucket(.Addr_Array(.Stk_Pt.))
844 03BA -- := Key_Pt;
845 03CC -3 end;
846 03CC -- for i := Stk_Pt to MAX_STACK_SIZE do
847 03F6 -- stack(i).Bit_Arr(.Addr_Array(i.
848 0464 -2 end
849 0464 -- else
850 0468 2- begin
851 0468 -- ok := true;
852 0470 -- i := Stk_Pt;
853 0484 -- while ok and (i <= MAX_STACK_SIZE) do
854 04AE 3- begin
855 04AE -- with stack(i.) do
856 04CE 4- begin
857 04CE -- if not Bit_Arr(.Addr_Array(i.)) then
858 0506 -- ok := false;
859 050C -4 end;
860 050C -- i := i + 1;
861 051E -3 end;
862 0522 --
863 0522 -- if ok then
864 0532 3- begin
865 0532 -- with stack(.Stk_Pt.) do
866 0558 4- begin
867 0558 -- Key_Pt@.next :=
J68 0562 -- Target_Bucket(.Addr_Array
869 059E -- Target_Bucket(.Addr_Array(.Stk_Pt.
870 05C8 -- := Key_Pt;

```

```

871 05DA -4 end;
872 05DA -3 end;
873 05DA -2 end;
874 05DA -- pt := Next_Pt;
875 05EC -1 end;
876 05F0 -0 B end;
877 0624 --
878 0624 --
879 0624 --
880 0624 --
881 0624 --
882 0624 --
883 0624 --
884 0624 --
885 0624 -- B procedure Eliminate_Needless_Source_Relations;
886 0040 --
887 0040 -- var
888 0040 -- i : integer;
889 0044 --
890 0000 0- B begin
891 0012 -- for i := 0 to BUCKET_SIZE do
892 002E 1- begin
893 002E -- with stack(.Stk_Pt.) do
894 0054 2- begin
895 0054 -- if Target_Bucket(.i.) = nil then
896 0078 3- begin
897 0078 -- Source_Bucket(.i.) := nil;
898 0090 -- Bit_Arr(.i.) := false;
899 00A8 -3 end;
900 00A8 -2 end;
901 00A8 -1 end;
902 00CA -0 B end;
903 00EC --
904 00EC --
905 00EC --
906 00EC --
907 00EC --
908 00EC --
909 00EC -- {----- Hash_Source_And_Target_Relations start from here --
910 00EC --
911 0000 0- A begin {Hash_Source_And_Target_Relations}
912 0012 -- Source_Flag := true;
913 001A -- point := Hd_Source_Pt;
914 0032 -- Hash_Relation (point, Source_Flag);
915 0056 --
916 0056 --
917 0056 -- if SIM_DEBUG then
918 0060 1- begin
919 0060 -- for j := Stk_Pt to MAX_STACK_SIZE do
920 008A 2- begin
921 008A -- writeln;
922 0096 -- write(' -----');
923 00AE -- writeln(' BIT_ARRAY at Stack Level : ',j:1, ' -----');
924 00F0 -- write(' ');
925 0128 -- for i := 0 to BUCKET_SIZE do
926 0144 3- begin
927 0144 --
928 0144 -- if stack(.j.).Bit_Arr(.i.) then

```

```

929 0186 -- write('l')
930 01BE -- else
931 01C2 -- write('0');
932 01FA --
933 01FA -- if (i mod 50) = 49 then
934 020E 4- begin;
935 020E -- writeln;
936 021A -4 end;
937 021A -- if (i mod 10) = 9 then
938 022E -- write(' ');
939 0266 -3 end;
940 0288 -- writeln;
941 0294 -2 end;
942 02B6 -- writeln;
943 02C2 --
944 02C2 -1 end;
945 02C2 --
946 02C2 --
947 02C2 -- Source_Flag := false;
948 02C8 -- point := Hd_Target_Pt;
949 02E0 -- Hash_Relation (point, Source_Flag);
950 0304 --
951 0304 -- Eliminate_Needless_Source_Relations;
952 0308 --
953 0308 --
954 0308 --
955 0308 -- if SIM_DEBUG then
956 0312 1- begin
957 0312 -- writeln;
958 031E -- writeln(' Hash_Source_And_Target called at Stack Level : '
959 035A -- with stack(.Stk_Pt.) do
960 0380 2- begin
961 0380 -- for i := 0 to BUCKET_SIZE do
962 039C 3- begin
963 039C --
964 039C -- ptl := Source_Bucket(.i.);
965 03C0 -- if ptl <> nil then
966 03D2 4- begin
967 03D2 -- writeln;
968 03DE -- writeln(' --- Source Bucket No. ',i:1,'
969 0420 -4 end;
970 0420 -- while ptl <> nil do
971 0432 4- begin
972 0432 -- write(' ');
973 046A -- for j := 1 to NUM_IDENT_CHAR do
974 0488 -- write(ptl@.Key_Arr(.j.));
975 050A --
976 050A -- for j := 1 to NUM_IDENT_CHAR do
977 0528 -- write(ptl@.First_Name_Arr(.j.));
978 05A6 -- writeln;
979 05B2 -- ptl := ptl@.next;
980 05CE -4 end;
981 05D2 --
982 05D2 -- ptl := Target_Bucket(.i.);
983 05F6 -- if ptl <> nil then
984 0608 4- begin
985 0608 -- writeln;
986 0614 -- writeln(' --- Target Bucket No. ',i:3,'

```

```

987 0656 -4          end;
988 0656 --          while pt1 <> nil do
989 0668 4-          begin
990 0668 --              write(' ');
991 06A0 --              for j := 1 to NUM_IDENT_CHAR do
992 06BE --                  write(pt1@.Key_Arr(.j.));
993 0740 --
994 0740 --              for j := 1 to NUM_IDENT_CHAR do
995 075E --                  write(pt1@.First_Name_Arr(.j.));
996 07DC --              writeln;
997 07E8 --              pt1 := pt1@.next;
998 0804 -4          end;
999 0808 -3          end; {for}
1000 082A -2          end; {with}
1001 082A -1          end;
1002 082A --
1003 082A --
1004 082A -0 A      end;
1005 0908 --
1006 0908 --
1007 0908 --
1008 0908 --
1009 0908 --
1010 0908 --
1011 0908 --
1012 0908 --
1013 0908 -- A      procedure Clear_Current_Upper_Part_Of_Stack;
1014 0040 --
1015 0040 --          var
1016 0040 --              i, j : integer;
1017 0000 0- A      begin
1018 0012 --              for i := Stk_Pt to MAX_STACK_SIZE do
1019 003C 1-                  begin
1020 003C --                      with stack(.i.) do
1021 005C 2-                          begin
1022 005C --                              for j := 0 to BUCKET_SIZE do
1023 0078 3-                                  begin
1024 0078 --                                      Bit_Arr(.j.) := false;
1025 0090 --                                      Source_Bucket_Arr(.j.) := nil;
1026 00A8 --                                      Target_Bucket_Arr(.j.) := nil;
1027 00C0 -3                                      end;
1028 00E2 --                                      Next_Bit := NUL;
1029 00EA -2                                  end;
1030 00EA -1                                  end;
1031 010C -0 A      end;
1032 012C --
1033 012C --
1034 012C --
1035 012C --
1036 012C --
1037 012C --
1038 012C --
1039 012C --
1040 012C -- A      function Only_One_Bit_Set_After_Hash(var addr: integer) : b
1041 004C --
1042 004C --          var
1043 004C --              flag : boolean;
1044 0050 --              done : boolean;

```



```

1103 0366 -0 A end;
1104 042C --
1105 042C --
1106 042C --
1107 042C --
1108 042C --
1109 042C --
1110 042C -- A procedure Merge_Relations_And_Print_Out (addr: integer);
1111 0044 --
1112 0044 -- var
1113 0044 -- Pt_Source, Pt_Target, Pt_T : LINK;
1114 0050 -- i : integer;
1115 0054 --
1116 0000 0- A begin
1117 0012 -- if addr <> EMPTY then
1118 0024 1- begin
1119 0024 -- if SIM_DEBUG then
1120 002E 2- begin
1121 002E -- write(' Merge Relations At Stack Level ',Stk_Pt :
1122 0064 -- writeln(' with Bucket Number ',addr : 3);
1123 009A -2 end;
1124 009A -- writeln;
1125 00A6 -- with stack(.Stk_Pt.) do
1126 00CC 2- begin
1127 00CC -- Pt_Source := Source_Bucket(.addr.);
1128 00F0 -- Pt_Target := Target_Bucket(.addr.);
1129 0114 -2 end;
1130 0114 -- while Pt_Source <> nil do
1131 0126 2- begin
1132 0126 -- Pt_T := Pt_Target;
1133 0138 -- while Pt_T <> nil do
1134 014A 3- begin
1135 014A -- write(' ');
1136 0182 -- for i := 1 to NUM_IDENT_CHAR do
1137 01A0 -- write(Pt_Source@.Key_Arr(.i.));
1138 0222 --
1139 0222 -- for i := 1 to NUM_IDENT_CHAR do
1140 0240 -- write(Pt_Source@.First_Name_Arr(.i.));
1141 02BE --
1142 02BE -- for i := 1 to NUM_IDENT_CHAR do
1143 02DC -- write(Pt_T@.Key_Arr(.i.));
1144 035E --
1145 035E -- for i := 1 to NUM_IDENT_CHAR do
1146 037C -- write(Pt_T@.First_Name_Arr(.i.));
1147 03FA --
1148 03FA -- Pt_T := Pt_T@.next;
1149 0416 -- Result_Count := Result_Count + 1;
1150 0434 -- writeln;
1151 0440 -3 end;
1152 0444 -- writeln;
1153 0450 -- writeln;
1154 045C -- Pt_Source := Pt_Source@.next;
1155 0478 -2 end;
1156 047C -1 end
1157 047C -- else
1158 0480 1- begin
1159 0480 -- if SIM_DEBUG then
1160 048A -- writeln(' There are no keys to be merged in this 1

```



```
1161 04A8 -1      end;
1162 04A8 -0 A   end;
1163 0548 --
   64 0548 --
1165 0548 --
1166 0548 --
1167 0548 --
1168 0548 --
1169 0548 --
1170 0548 --
1171 0548 -- A   procedure Save_Next_Addr_Bit;
1172 0040 --
1173 0040 --     var
1174 0040 --         i : integer;
1175 0044 --         found : boolean;
1176 0048 --         num : integer;
1177 004C --
1178 0000 0- A   begin
1179 0012 --         num := NUL;
1180 001A --         found := false;
1181 0020 --         i := Addr_Num + 1;
1182 0038 --         while not found and (i <= BUCKET_SIZE) do
1183 0066 1-             begin
1184 0066 --                 if stack(.Stk_Pt.).Bit_Arr(.i.) then
1185 00AE 2-                     begin
1186 00AE --                         stack(.Stk_Pt.).Next_Bit := i;
1187 00E0 --                         found := true;
1188 00E8 -2                     end;
1189 00E8 --                         i := i + 1;
1190 00FA -1                     end;
1191 00FE --
1192 00FE --                 if (not found) and (i > BUCKET_SIZE) then
1193 012C --                     stack(.Stk_Pt.).Next_Bit := NUL;
1194 0158 -0 A   end;
1195 0178 --
1196 0178 --
1197 0178 --
1198 0178 --
1199 0178 --
1200 0178 --
1201 0178 -- A   function No_More_Next_Addr: boolean;
1202 0048 --
1203 0000 0- A   begin
1204 0018 --         if stack(.Stk_Pt.).Next_Bit = NUL then
1205 004E 1-             begin
1206 004E --                 Addr_Num := NUL;
1207 005C --                 No_More_Next_Addr := true;
1208 0064 -1             end
1209 0064 --         else
1210 0068 1-             begin
1211 0068 --                 No_More_Next_Addr := false;
1212 006E --                 Addr_Num := stack(.Stk_Pt.).Next_Bit;
1213 00A6 -1             end;
1214 00A6 -0 A   end;
   15 00D4 --
1216 00D4 --
1217 00D4 --
1218 00D4 --
```

```
1219 00D4 --
1220 00D4 --
1221 00D4 --
  22 00D4 --
1223 00D4 -- A procedure Assign_Source_And_Target;
1224 0040 --
1225 0000 0- A begin
1226 0012 --     if SIM_DEBUG then
1227 001C 1-     begin
1228 001C --         writeln;
1229 0028 --         write(' Assign_Source_And_T ==> Address Number : ',Addr
1230 005E --         writeln(' Stack Number : ',Stk_Pt :1);
1231 009A -1     end;
1232 009A --         Hd_Source_Pt := stack(.Stk_Pt.).Source_Bucket(.Addr_Num
1233 00F0 --         Hd_Target_Pt := stack(.Stk_Pt.).Target_Bucket(.Addr_Num
1234 0146 -0 A end;
1235 01A8 --
1236 01A8 --
1237 01A8 --
1238 01A8 --
1239 01A8 --
1240 01A8 --
1241 01A8 --
1242 01A8 --
1243 01A8 --
1244 01A8 --
1245 01A8 --
1246 01A8 --
1247 01A8 -- A procedure pop;
1248 0040 --
1249 0000 0- A begin
1250 0012 --     Stk_Pt := Stk_Pt - 1;
1251 0030 --     if Stk_Pt < 1 then
1252 0048 --         writeln(' Stack Underflow !');
1253 0066 --
1254 0066 --     if SIM_DEBUG then
1255 0070 1-     begin
1256 0070 --         writeln;
1257 007C --         writeln(' Popped, Stack Pointer is ',Stk_Pt:1,' from ',Stk_F
1258 00EC -1     end;
1259 00EC -0 A end;
1260 013C --
1261 013C --
1262 013C --
1263 013C --
1264 013C --
1265 013C --
1266 013C --
1267 013C --
1268 013C --
1269 013C --
1270 013C --
1271 013C --
1272 013C --
  73 013C --
1274 013C --
1275 013C -- A procedure push;
1276 0040 --
```

```
1277 0000 0- A begin
1278 0012 --      Stk_Pt := Stk_Pt + 1;
1279 0030 --      if Stk_Pt > MAX_STACK_SIZE then
    30 0048 --          writeln(' Stack Overflow !');
1281 0066 --      if SIM_DEBUG then
1282 0070 1-      begin
1283 0070 --          writeln;
1284 007C --          writeln(' Pushed, Stack Pointer is ',Stk_Pt:1,' from ',Stk_F
1285 00EC -1      end;
1286 00EC -0 A    end;
1287 0140 --
1288 0140 --
1289 0140 --
1290 0140 --
1291 0140 --
1292 0140 --
1293 0140 --
1294 0140 --
1295 0140 --
1296 0140 -- A    function Bottom_Of_Stack : boolean;
1297 0048 --
1298 0000 0- A    begin
1299 0018 --          if Stk_Pt = 1 then
1300 0030 --              Bottom_Of_Stack := true
1301 0030 --          else
1302 003C --              Bottom_Of_Stack := false;
1303 0042 -0 A    end;
1304 0064 --
1305 0064 --
1306 0064 --
1307 0064 --
1308 0064 --
1309 0064 --
1310 0064 --
1311 0064 --
1312 0064 --
1313 0064 --
1314 0064 --
1315 0064 -- A    procedure Print_Statistics;
1316 0040 --
1317 0000 0- A    begin
1318 0012 --          writeln;
1319 001E --          writeln;
1320 002A --          writeln;
1321 0036 --          write(' THE TOTAL NUMBER OF KEYS IN THE SOURCE RELATION
1322 004E --          writeln(Source_Count:4);
1323 0078 --          writeln;
1324 0084 --          write(' THE TOTAL NUMBER OF KEYS IN THE TARGET RELATION
1325 009C --          writeln(Target_Count:4);
1326 00C6 --          writeln;
1327 00D2 --          write(' THE TOTAL NUMBER OF KEYS IN THE RESULT RELATION
1328 00EA --          writeln(Result_Count:4);
1329 0114 --          writeln;
1330 0120 --          writeln;
    31 012C --          writeln;
1332 0138 --          write(' THE TOTAL NUMBER OF HASH CODER USED IN THE JOI
1333 0150 --          writeln(Hash_Count:4);
1334 017A --          writeln;
```



```

1393 0186 --                               else
1394 0198 2-                               begin
1395 0198 --                               Assign_Source_And_Target;
   96 019C --                               Save_Next_Addr_Bit;
1397 01A0 --                               push;
1398 01A4 -2                               end;
1399 01A4 -1                               end;
1400 01A4 -0                               end;
1401 01A4 -9                               end
1402 01A4 --                               else
1403 01A8 9-                               begin
1404 01A8 --                               Assign_Source_And_Target;
1405 01AC --                               Save_Next_Addr_Bit;
1406 01B0 --                               push;
1407 01B4 -9                               end;
1408 01B4 -8                               end;
1409 01B4 -7                               end
1410 01B4 --                               else
1411 01B8 7-                               begin
1412 01B8 --                               Assign_Source_And_Target;
1413 01BC --                               Save_Next_Addr_Bit;
1414 01C0 --                               push;
1415 01C4 -7                               end;
1416 01C4 -6                               end;
1417 01C4 -5                               end
1418 01C4 --                               else
1419 01C8 5-                               begin
1420 01C8 --                               Assign_Source_And_Target;
1421 01CC --                               Save_Next_Addr_Bit;
1422 01D0 --                               push;
1423 01D4 -5                               end;
1424 01D4 -4                               end;
1425 01D4 -3                               end
1426 01D4 --                               else
1427 01D8 3-                               begin
1428 01D8 --                               Assign_Source_And_Target;
1429 01DC --                               Save_Next_Addr_Bit;
1430 01E0 --                               push;
1431 01E4 -3                               end;
1432 01E4 -2                               end
1433 01E4 --                               else
1434 01E8 2-                               begin
1435 01E8 --                               Assign_Source_And_Target;
1436 01EC --                               Save_Next_Addr_Bit;
1437 01F0 --                               push;
1438 01F4 -2                               end
1439 01F4 -1                               until finish;
1440 020A --
1441 020A --                               Print_Statistics;
1442 020E --
1443 020E -0                               end.

```

AAEC PASCAL 2.0 COMPILATION CONCLUDED

) ERRORS DETECTED IN PASCAL PROGRAM*

If the first character of a first name is between "A" and "A",
the name will be included in the source relation.
Otherwise, the name will be included in the target relation.

-----SOURCE-----		-----TARGET-----	
Pease	Anthony L	Pickett	Jack M
Wyman	Alvin E	Johnson	P
Shafshuf	Ahmed	Zimmerman	Kathy
Oetiker	Albert L	Barnes	Edd G
Imler	A B	Mahoney	David
Pome	A	Fields	Wendy L
Pieruccini	Alfred Lt Col	Elig	T
McSpadden	A C	Brookes	T C
Adel	Amanudin	Cothran	Jack D
Lane	Adrienne	Grossman	Barry L
Montalvo	A	Hedstorm	Thomas J
Mori	Alferd H	Boyle	Michael
Powell	Anthony	Bonbrest	Franklyn H
Francke	Amiel	Marten	P
Shapiro	A	Pulley	Leonard T J
O'Neal	A	Lang	Chris
Boineau	Alain	Shields	Diane
Marchione	Allen	Lucckese	Nat
Lucero	A	Skilton	K
Simmons	Alfred J	Maxfield	Kenneth
Vaxmonsky	Albert L	Beatson	T K
iceli	Alex	Carroll	Eugene R
Walsby	Allan D	Kuhn	Edwin A
Blake	A	Sandoval	Steve
Russell	Alberta M	Prochl	J
Yorkdale	Alan H	Kay	Kenneth M
Place	Alain	Rosenfield	Jane
Hall	Anne Schleiger	Stubblefield	Randall J
Alavi	Ahmads	Street	John N
Koumas	A T	Waring	Clark W
Coleman	Alessa	Shields	Mark
Godwin	Anne	Faucette	Margaret
Ali	Ashraf	Wingrove	Lucy S
Stephan	Amy A	Martiney	Mercedes
Bean	A	Stepp	Raymond D Jr
Lawrence	Andrew G	Eaton	Bill F
Dix	A E	Mundy	R
Wilcox	Angie	Johnson	Claud H
DelToro	A M	Klein	Kenneth
Burghal	Abir	Smith	Sylvester
Potter	Andrew	Wiggins	Rudolph V
Gardino	Anthony	Miercort	J A
Stidham	Amu	Huff	Dorothy
Dadeh	A	DerBogolian	D
Norton	Arthur J	Gear	James Jr
Isaacs	A L	Handerson	N J
Jones	Aubrey B III	Nelson	Jane
atheny	Arthur	Sedlak	Richard M
r ellan	A E	Friedlander	Carl
Brewington	Ann P	Elmore	John A Brig Gen
Anderson	Anders	Howie	Steade S
Vaught	Alexandria	Faria	W C
DeFend	Alan	Ryon	Marshall
Moscattello	Arthur P	Borys	B A
Pease	Anthony L	Johnson	P

Johnson	Allen O	Long	Lester Laird
Emory	Alan S	Steele	Lee Roy
Maitra	Amit K	Thomson	John C
Provenzano	A J	Quattlebaum	Chas Albert
Pallotta	Arthur J	Sabatier	Michael
Kably	Abdulla	Tilly	John R
Carriker	A Wendell	Wynkoop	Roy L
scher	A	Zachem	K W
T mpson	A	Hoyle	Fred W
Kendrick	Anna Magaret	Leblane	Hector J
Kemp	Anne Marie	Tinder	W Michael
Kaplan	Abraham O	Dolan	K
Gates	Allan W	Burns	D J
Foreman	Amy	Mann	Judy
Dunbar	Annie	Jerris	Wilfrid C
Crawford	Andrews B Maj	VanMeter	D K
Coleman	Albert	Cawley	Kim Paul
Chamberlain	Alexander Scott	Nadolski	Michael A
Briggs	Albert	Scott	Irene F Judge
Birch	Alyce M	O'Dell	R L Jr
Alonso	Adriana	Moreau	Francois
Aloma	Arturo	Shau	P
Kallio	Alan J	Staley	D R
Kallen	Arthur D	Bronson	C D
Kaye	Arthur	Mohajeri	Manouchehr
Kemper	Anthony J	Kuprewicy	M B
Krause	Araine	Geier	C A
Morris	Anthony	Schmidt	Mark T
prinz	Arthur J	Wonderly	Bernice P
Pulliam	Alice L	Krafft	John J
Schlosser	Alln D	O'Brien	S J
Smith	Alan	Shields	David E
erry	Alex	Smith	Robin E
rbert	Arthur Carrier	Naraghi	Maknay Arani
lbert	Anita J	Symonds	T M
Ford	Anna Mae	Krokus	Robert R
Ford	Andrew	Snyder	Cecilia E
Evans	Albert J	Donlan	Charles J
Evans	Alan	Strange	Ben W
Evans	A Lee	Miron	Mike
Dorsey	Anne	Barnes	P A
Cooper	Arthur I	Oconner	William E Jr
Cooper	Alvin	Friedrich	Carolyn
Cooper	Alla	Ballentine	L R
Cooper	Alfred D	Earmratana	P
Cooper	Albert	Iorio	Stanley A
Cooper	Aileen	Bradley	Wm T R
Cooper	Adren	Rassin	G
veith	Arthur J	Kraus	D V
Veith	Arrietta E	Edwards	Frederick W
Slate	Annamarie	Lake	Kelly
Slate	Angela S	Blagrove	Tony
Krohl	Andy	Bywaters	L
Krohl	Anders	Lairmore	G
Kropp	Amie C	MacKnight	R L
Kropp	Alvin D	Finley	John H
Kropp	Allyson	Moss	Louis H
Kropp	Allen E	Reusser	R
Anderson	Alden P	Danner	B G
erson	Alan S	Bromley	George G
Anderson	Adrian B	Greenbaum	Michael C
Nash	Alexander Melvin	Moore	I S
Lebowitz	Allen	Fray	J L
Hurtado	Alfredo	Ness	Richard A
Fortney	Anthony	Le	Hung
ilbert	rbert C	rbert	rbert

Willey	Anne A	Mullin	J
Roslyn	Albert S	Fields	Brian K
Kautz	Arthur C	Clark	Ronald A
Zumstein	Albert A	Schever	L Robert
Hiles	Andrew	Boudreaux	J C
Merz	Albert H	Strnad	Jas J
Azar	Abdul Hakim	Yost	H L
awlins	Andrew	Patel	S
V ter	Arthur	Creasy	Scott W
Christensen	A B	Choi	Heung Sik
Sadur	A	Rogers	Marion
Allam	Anthony	Kuhn	Dave
Puff	paul	Wallace	Donald L
Malmberg	Allan F	Chisholm	William H
Greber	Alan	Kaplan	Maynard H
Gawkowski	Amy	Munsey	Robert G
Saenz	Adolph B	Watts	Suzanne
Cavazos	Anthony A	Huang	Robert Y
Hatcher	Amelia	Galvin	Nicholas
Dorsey	Ann	Salerno	Ronald
Lazarus	Allan R	Billings	Raymond C Jr
Snider	Adrienne	Ray	Everett E
Lazo	Andres	Schroeder	Harold
Venable	Albert	Sprouse	Ronald N
Chrisman	Amanda M	Irvin	Wayne M
Stuart	Alfred D	Clough	Lawrence
Yasuda	Akiharu	Ogg	P
Horton	Adona I	Apodala	Francisco
Chrismon	Alan C	Hardy	Michael P
Ludwig	August W	Zambrana	Paul
Einhorn	Annie Lee	Thompson	Blair A
Tate	Ada Cecelia	Porter	Patrick A
erriman	Allen R	Ryan	Richard H
obarski	Alfred	Powell	Thomas Shane
		Melander	D J
		Perkins	M A
		Galbraith	William R
		Meadows	Gary L
		Beach	C S
		Graf	Robert
		Symmonds	Robert H
		Waller	Forrest E
		Baker	Paul F
		Speake	Jack T
		Suchy	Joyce M
		Welsh	Denise
		Boyer	T H
		Hill	Jack D
		Dunn	Keith
		Wieboldt	Richard
		McCahill	Robert T
		Katona	G
		Usack	Lola
		Bishop	H L
		Lundin	John E
		Roy	Minati
		Bennett	C A
		Nelson	C
		Ford	S L
		Gibson	Paul S
		Brown	R J
		Frakes	M
		Haluska	Susanne
		Grabes	D Lucas
		Strauss	Michael

Garside	G
Shepherd	Ronald L
Knight	Richard A
Turuiman	Saleh
Wilson	James C
McCabe	Kathleen
Lachat	S
Reikowsky	John
Galligan	Dennis
Hupp	Rod
Lev	B W
McCrary	Nathaniel
Mace	Jack S
Ananka	Jos P
Huber	Fred
Domdom	Rolands
Cordingley	D M
Flethcer	Zola
Reams	Geraldine B
Walsh	C G
Humes	Martha
Kraft	Eugene C
Hills	David
Serra	Miguel
Nardella	Michael
Roberts	Leon M
Anderson	Rob L
Charity	Harry Jr
Merle	Norman
Mills	Herman
Bennett	Carl M
Guanclique	Dimas
Kim	Myung-Seok
Allbright	William F Jr
McGinnis	Cathy
Moore	V A
Elkin	Ben
Silva	M
Fitzgerald	John Macknight
Nichols	Steven
Taplett	Robert D Col
Rogers	John L Jr
Brown	James W Jr
Jacob	William
Perez	Orlando
Wilhoit	R F
Woolfenden	S
Beck	Greg
Reiss	Lenore
Coletto	Ges G
Thompson	William E
Gentry	Wm B Jr
Hall	Lester
Sinonton	P A
Manning	Richard P
Wiles	Robert Scott
Rosenberger	Harry D Mrs
Theriot	Donald
Throgmorton	Ellen M
Ko	In Chul
Szabo	R E
Cundiff	Kevin N
Ashley	Lewis J
Vdovjak	John
Jamerson	Hoyt L
Trinkle	C Wynn Col

Gaskill	Helen M
McCloud	Mary
Hong	Jang Sik
Kane	Michael C
Guiton	B
Zewan	J
Bailey	Marshall
Lappine	John
Aikens	Debbie
Wirtz	Robert F Jr
Shannon	Deborah
Wright	Henry W
Higgins	Ed
Keener	Keith
Bell	Jackson
Stokes	C L
Barr	Michael A
Williford	D E
Clark	John
Austin	Walter I Capt
Wright	Thomas H Maj
Mazur	Mojmir F
Webb	Wanda
Robinson	K M
Collins	Kathleen
Robson	D
Gurney	L
Chandler	Matthew J
Nerio	Lisette Alba
Ellyson	B
Marcum	Eldon K
Power	M E
Bass	David
Wang	Chung-Hsing
Mileham	Harry P
Verasin	Narong
Hayes	C W
Deremer	Ellen R
Chatfield	Terry
Berman	Sherri
Priestly	Jack K
Freezer	Claudia
Foster	Kelly
Cross	E D
Shepard	Ralph
Gustafson	Marcia
Hinderman	Joseph O
McLaughlin	L A
Neal	Mitchell
Schweickert	Jerome
Bigby	Gilbert A
Shin	H D
Jones	Geor
German	R
Corey	B
Okey	R
Peterson	C S Mrs
Shutt	Carlton W
Craddock	Steven C
Catsis	B
Koroljow	Walter
Hart	Deborah J
Oliff	James A
Robinson	John D
Reed	Frank E
Reed	Fred M

O'Connell	Jos F
Saikin	Drew
Dunn	Danny
Speers	Lisa N
Wilson	C E
Pedersen	Darryl N
Rinker	Donald W
Mrstik	Bernard J
Dorn	Peter
Wesling	Richard M
Korsh	David I
Webster	B D
Helseth	Ted
Roberts	Delvis Burton
Ortmeier	Michael G
Kenerson	J S
Haynes	H E
Ziauddin	Osman
Coats	John
Wojcik	Tess
Pham	Hung M
Berneking	Michael D
McKneely,	M
Richards	Tony
Rice	Richard H Jr
Jamieson	William H
Lewis	William P
Spangler	Brian
Shackelford	E L
Denhartog	D J
Duong	Tony
McCormack	C A
Paschal	E P
Rabbee	Fazle
Stewart	William D
Terango	Marco
Pollack	Max
Strisik	Roger
Chankeris	C
Burnham	Ralph L
Cox	S R
Andrews	Geneva Mrs
Smith	Herbert E Capt
Varela	Pablo
Hashem	Hesham
Brill	Joseph P
Roubik	Robert
Peters	Michael
Suarez	John
Perez	Fidel
Brock	Robert
Gilbert	Tracy
Park	Sueng Ho
Akar	Jacie
Fehlner	Christine
Robbins	Stanley D
McDermott	Matthew H
Rowles	M E
Dolbow	Wilbur N
Waterman	Ron
Dendor	Paul
Simmons	Mark C
Buress	S
Hamidi	Mohammad Z
Weymes	Gerald
--	--

Brendel	Wayne R
Hancock	Heidi
Briggs	Winston D
Barnette	C L
Menz	Elizabeth
Marlatt	P
Cunningham	E D
Jansen	David A
French	Donald T
Shim	Chon Shik
Back	Ron
Thornton	David L
Brown	Robert M
Drennan	Bruce L
Omidyar	Yvette
Cook	Harold
Davidson	Gene H
Covill	L
Hills	C D
Edwards	K
Escovar	Hector
Roderique	J O
Hamarma	Fawzy I
Cullen	Jas A
Gorrell	Felix B
Manner	Cos
Wright	J R
Page	Max C
Larson	N K
Smith	Gary R
Stephens	Jesse L
Murphy	Robert D
Chacho	K M
Thomas	Tom
Wilson	F R
Kronfeld	Jay R
Spetzman	Lloyd A
Fields	Charles W Mrs
Main	Pat
Underwood	T L
Samuels	Donald L
Bourie	P A G
Singh	Rattan
Karel	J T
Gates	C V
Hoff	R K
Dwyer	R J III
Meadows	Douglas K
Davis	V M
Bechtel	Terry
Richter	S J
Kerson	Mark
Floyd	George
Plunkett	Patrick
Davis	R
Mallory	Duave
Dinneen	John F
Linehan	T S
Linden	Henning Gen
Kramer	C J
Kolczynski	Norbert
Lambert	Lisa
Whitely	Velma
Perry	Wm R Lt Col
Pfister	Thomas K

Receveur	Robert A
Sorrrough	Irene Lt Col
Pruitt	E R
Gregory	E M
Greenstreet	J E
Norton	L C
Trusty	Christene
Stroup	Robert E
Miller	Lois H
Hull	Ronald
Magill	John Pierson
Quick	Herbert
Bean	Cheri
Scott	Curtis
Pabst	D
Kramer	Nornan C
Reyes	Calixto
Kramer	Richard
Ayoub	Joanne
Emsat	Nabila
Nong	Hung B
Hicks	Lynn
Van	Herreweghe D J
Aleman	Steven
Takesian	Walter
Woodring	P A
Boyce	David
Lenortarage	Bernard
Noel	Richard A
Davis	H Z
Ponikowski	Chester
Kerns	Merlin C Col
Rubenstein	David
Ramzi	P
Beatson	R
Jennings	J
Boyd	Robert C
Clark	Jas Harry Jr
Cole	J A
Landin	S L
Westman	E
Sweet	David G
Karimi	Mohammad
Smith	Melinda K
Dwyer	Hartley G
Godbout	Thomas
Guy	D
Basil	Tony
Carpel	Richard J
Stevens	Bernice A
Cho	Yun Ju
Buursink	John
Barbera	S
Braden	Damon
Hollander	E P
Forrester	Beth
Nelius	Carl
Sweeney	Katie
Tirado	Miguel Angel Jr
Babin	F K
Goldyn	R
Payne	H E
Brandis	M
Stonecypher	Don E
Seng	Timothy

Kahan	Jerome
Blake	Jeffrey
Unruh	Paula
McNamara	Walter A
Greenwell	Ralph W
Cole	L K
Leighton	David T
Barr	George A
Even	William
Bell	David
Pullis	Kenneth W
Knight	Harry V Jr
Trahant	William J
Vemeyer	D P
Theresa	DiResta
Friedrich	Scott
Crawford	Richard I Col
Mortonson	Theodore
Read	S J
Nutty	Combe J H
Lee	Robert
Schwalenstocker	M
Tielkemeier	O
King	Joseph
Smeeton	Thomas R
Lause	Brian E
Quiroga	Flora
Klotz	Lynn
Gawarecki	Stephen J
Burneko	Paul J
Lewis	Kenneth H
Hasnip	Michael K
Doying	William A E
Small	Melvin D
Dupuis	Bernard E
Peacock	Charles
Priester	J M
Justus	G J
Price	C
Craig	N
Parker	Ronald H Capt
Sikora	Frank
Artin	Janet
Koah	Gary
Bayless	Bob
Longmire	David W
Myongsun	Yi
Randall	Mabel
Talbert	Wayne
Bradfield	David
Perkins	Roy F Jr
Fleming	J Evans
Piper	L
Wood	Hildred H
Burks	Timothy E
Egge	Robt
McCarthy	Elizabeth
Vollmerhausen	J
Bilodeau	Douglas T Jr
Young	T K
Saulsbury	Michael P
Villanasco	Cornelio
Wynne	George G
Burns	Dennie G
Taylor	D P

Linhart	Richard W
Koizumi	Don T
O'Laughlin	Edward
Ellington	Troy D
Morales	N
Davis	Thomas M
Costello	Kevin W
Seaman	Jos W
Mutz	B A
Pucket	William N
Smith	David S Jr
Hopkins	V
Hill	J H
Smith	Samuel
McIntosh	John L
Crotty	Charles J
Good	Fred J
Gonzalez	J D
Mabis	Edward
Pohorylo	E E
Mallat	Jean-Yves
Drof	John H
Johnson	Moddie
Chae	Won Je
Jackson	Tom
Stewart	M M
Erianne	Michael S
Trout	Howard W Jr
Marsden	Heita
Riddell	James W
Dowdy	Phil A Rev
Paladino	R A Col
Sheeley	Priscilla W
Perkins	Osa C
Spruill	Mark E
Hauver	Mark W
Frame	P A
Riemer	Peter P
Sokloski	J M
Concannon	Joseph P
Halpin	Jas R Jr
Davis	K
Daly	Joe
Kosarin	Jonathan
Monyak	Robert
Millerioux	B
Chaplin	Marie L Mrs
Zeman	Joseph
Walter	Paul
Rosenberg	David
Cont	C
Molina	Oscal
Hyde	M
Pollack	Peter
Alston	Jerome
Limaye	Suresh R
Jackson	Robert H
Ringer	Thomas R
Nichols	Robert R
Chamma	Salwa
Israelian	Ruben
Goins	M
Cavagliotti	Renzo
Phillips	Jim
Lotz	G B II
...	...

Johnson	George S
Ward	Elizabeth C
Cannon-Brow	Sandy
Weiss	Brad D
Diegan	Richard
Mussel	J F
Lagana	L S
Moore	Robert A
Szymanski	Richard
Hotchkiss	E
Curnyn	Kevin O
Ross	William A
Burd	D
Bryan	J E
Allen	Eric
Stoeger	Jon H
Smith	R E
Spero	J M
Zorn	Robert
Newsome	Joe
Dietrich	Ivan N
Yore	Robert C
Kacsmarik	James
Bryan	Sandra G
Peine	I
Castele	Roger L
Utter	George
King	R Diane
Upfold	C L
Claffey	Jonathan
Crowley	Thomas A
Dougherty	John Lt Col
Sherwood	William D
Chisholm	C
Gillice	S J
Burns	John J
Martin	James Richard
Kluttz	Robert
Miklas	S G
Budd	R G
McFaul	E J
Roets	Peter
Judnich	Francis A
Lynnes	Christopher
Soffe	Stephen
Birdsall	James E
Molloy	James
Harsher	Clarence L
Smyser	Willis M Col
Gunderson	Kenny A
Dougherty	James J Jr
Burke	Carl J
Wilkins	Shirley
Morrow	K
Malin	T A
Fedrigault	Yves
Derrington	Darrell
Pazar	Charles E
Adams	John E
Connell	Frank M Jr
Norgard	K
Lantonio	D J
Goins	D D
Grouby	Britt
Donellan	J E
Messiah	Stanley D

Libbey	Charles F
O'Brien	Geraldine
Merritt	James B 5th
Osman	Walie
Schwartz	Barry
Cutler	Lois
Fortman	Hazel
Castellano	Richard
Watts	Jonathan S
Jeffries	David
Denton	Stephen J
Hine	Kevin S
Aldrich	Marlene
Bucher	Kenneth J
Malvaso	Patrick
Seaman	Robert W
Foster	J
Rabung	R M
Williams	I
Gosh	Linda
Williams	Freeman W Col
Holloway	James
Riden	T L
Wall	Lillian
Stonelake	Joanne A
Larson	L
Epley	James A
Chandler	Paul R H
Myers	Irvin P
Deardorff	Robt K
Stearns	Hugh B
Engeman	I R
Ferguson	James H
Vorasane	Nane
Childress	Eddie T
Showalter	Glen
Adams	Hebron E
Gross	Robin
Zook	M
Gehle	Ben
Hassan	Kamel
Lee	Charlotte A Mrs
Walker	Edward P
Crossman	Thos D
Bauckman	S W
Jackson	Glen R
Stallings	Timothy
Delashmitt	James H
Dietz	David A
Escudero	Oscar R
Gannon	Robin
Burke	R S
Tessman	Herman D
Arnold	John H
Ryan	C
Shumaker	Carl
Clark	S A
Ryan	Tim
Zayatz	Thomas
LaFave	J
Herbert	Walter C Jr
Scuderi	Thomas G
Weinig	Don L
Mayes	Forest J
Crider	Mary

Sutherland	Shaun
Porter	Carl W Capt
Hutchinson	James F
Campbell	H J Capt
Elgin	Larry
Solack	Geo A
Csulak	L
Faught	C H
Shumar	Wilmer A
Carter	John M
Stillwill	Larry
Healy	Richard W
Markwood	Susan Banville
Alhagh	Noor M
Barazotto	P
Aaron	David J
Pitts	Russell
Castro	Elena
McManus	Karen
Von	Richthoffen Zoe
Richardson	David L
Jones	S L
Mohammad	Susan
Derr	Max Jr
Howley	Peter J
Brooker	Richard I
Klimek	Scott
Clark	R E Mrs
Patsey	Justin F
Linden	Gregory
Schaffer	Matthew
Fuenzalida	Hernan
Sexton	J G
Hillock	Glen
Holt	Charles
Morris	James A
Jeffries	H H
Monroe	Michael A
Rowland	Darrell W
Hink	Harry D
Drohan	M
Caulfield	Suzanne M
Gonzalez	K H
Byers	D
Ivey	Pat
Conroy	Mary E
Kishok	Gene D
Steel	Linda K
Nesmith	B
Samuels	Charles J
Henneberger	Cindy
Mutschelknaus	Brad
Kim	Yeun
Thomas	Frances B
Ancell	S
Carroll	Michael G
Leonard	M C
Korte	Dennis
Schmitt	Richard C
Weslar	Wm H Dr
Roddy	Daniel J
Sears	Robert S
Hershey	Loren W
Welborn	J A
Marini	B

Dryburgh	John C
Samelko	Gene
Saludo	Lourdes
Williams	Raymond
Cook	Phillip Bruce
Pratt	S E
Clinkscale	Robert M Col
Lyons	J A
Harrison	K
Vaitas	V S
Peterson	Todd D
Camporini	Edward E Col
Parnell	Harry S CMSgt
Coon	H M
Symons	Chris
Murphy	John F
Dipaula	Michael J
Lukasavich	William P
Jenkins	L
Eagan	Cheryl
Hahn	Thomas J
Gary	T Jack Jr
Gute	Mindy
Hashmi	Jawaid
Aschbrenner	R
Stevens	Peggy A Mrs
Pepper	F Jay
Belfield	Brenda
Kulha	Dwayne
Capizzi	Jerry J
Middents	Dirk
Ribichaud	Robert F
Stanford	K A
Thompson	John H
O'toole	Kevin
Brown	Mark H
Beattie	B H
Fitzpatrick	R M
Swiadek	Stanley F
Brandt	Catherine
Forrestel	D
Boyce	Devon
Black	Susan H
Leger	Cam
Baker	George R Jr
Darrow	James
Hatch	D K
Hyde	Thomas J
Baker	Vance B
Sasaya	Hidemitsu
Brown	Jay C
Fetty	DAvid
Falcon	Vidal
Williams	Lloyd
Buffalow	Donald
Woodson	Lewis S III
Gellis	Ian
Ramsay	Dennis M
Dunn	Richard
Naill	Roger F
Spiegel	Barry M
Lohr	R B
Lukash	James R
Yoo	Kang
Bartal	P R
Redmond	Walter

Jennings	Roseanna
Jennings	Nelson
Jennings	Maggie
Hoffman	Conrad R
Hoffman	Charles W
Hoffman	Bernard
Hess	Sydney S
Hess	Orace H
Hess	Jimmy D
Harrison	Warren J
Harrison	Sharon
Harrison	Monika E
Harrison	Raymond W
Harrison	Michael T
Hamilton	Milton H
Hamilton	Lindsay
Hamilton	Howard B
Hamilton	Gregory
Hamilton	Frederick
Hamilton	Drew B
Hamilton	Dale
Gould	Kenneth A
Gould	Jewell
Gould	Geo a
Goss	Melissa
Goss	Hope
Goss	Brian
Glass	Glassco Ben
Glass	Roger P
Glass	Jennie L
Gates	Max
Gates	Lawrence M
Gates	Kirby
Gates	Jesse
Gates	Culver V
Foreman	Tim J
Foreman	Seth
Foreman	George
Foreman	Carter
Ferguson	Mark G
Ferguson	Katherine
Ferguson	Jessica
Ferguson	Dale
Ferguson	Cathy
Ferguson	Bruce A
Ferguson	Blant Chaplin
Ecker	Gary G
Ecker	Jeffrey
Ecker	David J
Duncan	Jas J
Duncan	Duane
Duncan	Clyde O
Dunbar	Frederick
Dunbar	Bradley
Davis	Lloyd
Davis	Lee
Davis	June M
Davis	Joan
Davis	Jeremy
Davis	Gordon S
Crawford	Thelma M
Crawford	Steven
Crawford	Pauline
Crawford	Douglas P
Crawford	Claudia C
Crawford	Catherine

coleman	Elizabeth F
Coleman	Dillon
Chandler	Lance W
Chandler	Don M
Champion	Ernest
Chamberlain	Patricia
Carlstrom	Brain
Carlson	Wendell
Carlson	Lawrence R
Carlson	Howard N
Carlson	Grady
Carlson	Frances
Carlson	Elaine M
Carlson	Forbe
Callaghan	Robert
Callaghan	Dorothy
Callaghan	Brian
Call	Charles
Burke	Miriam V
Burke	Kathlenn
Burke	Julia S
Briggs	Winston D
Briggs	Marcus
Briggs	Gary G
Briggs	Duncan
Birdsong	Frank A
Bird	Richard
Bird	Joseph
Bitch	Marian
Beach	Tommy
Beach	Norman P
Beach	Eugene Y
Baxter	Timothy M
Baxter	Raymond S
Baxter	Robt
Barton	Rosalind C
Barton	Johnny
Ball	Louis
Ball	Jean E
Ball	Grank H
Ball	Coletha
Ball	Claude
Balcom	Roger C
Bakley	George
Arnold	Philip N
Arnold	Peter L
Arnold	Chas J
Armstrong	Russ
Alonso	Elena T
Ally	Leon
Abushady	S
Abramson	Lynn
Abramson	Jonathan
Abella	Gabriel
Jensen	Windy
Jensen	Thomas C
Jensen	Stanley
Jensen	Peter
Jensen	Oral J
Keane	Thomas J
Keane	Sharon
Keane	Mary J
Keane	Daniel
Kaye	Zachary A
Kaye	Merelyn S
Kay	

Kemper	Beryl
King	James
King	Frederick M
King	Edmund J M
King	Donna
King	David M
Kramer	Ida Mae
Kramer	Edward A
Krause	Walter P
Krause	Jeffrey
Krause	Grant
Landis	Janna
Landis	Gregory
Landis	Diane
Layton	Thomas P
Layton	Kenneth A
Lewis	Wellington
Lewis	Webster T
Lewis	Shelly
Lewis	Preston
Lewis	Matthew Jr
Lewis	Margaret C
McLaughlin	Theresa F
McLaughlin	Joseph D
McLaughlin	Jerry
Meekins	Francis J
Meekins	Chris
Morris	Ronald W
Morris	Mollie
Morris	Jeter
Morris	Donna
Morris	Debbie
Morris	Barry
Murphy	Netta
Murphy	Muriel
Murphy	Margaret
Nelson	Fanny
Nelson	Frederick C
Nelson	Edwin N
Myer	Jonathan
Nelson	Herb
Nelson	Harold D
Nelson	Gerald
Nelson	Fred
Nichols	Daryl E
Nichols	Clayton I
ONeill	Kevin
ONeill	William
Orleans	Olgerts G
Orleans	David
Parkier	Cecil E
Parkier	Bradford J
Parkinson	Leonard
Parkinson	Clarence F
Pittard	C M
Pitt	Pierre
Pollard	Michael J
Potter	Randal
Powars	Forrest
Power	Lynne H
Prince	Helen T
Price	Morris E
Price	Maxwell L
Price	Corabel A
Quinn	Donald P

Raymond	Leon
Raymond	Harvie
Raymond	Dorothy
Reed	Steven W
Reed	Richard
Reed	Philip
Reed	Jos M
Reed	Herbert
Robeson	Palmer
Robinson	Perry
Roden	Matthew
Roseman	James N
Rosner	Fred J
Sadler	Mildred E
Sadler	Tierney
Sadler	Ludy
Sargent	Eliwood W
Sargent	Coutney R
Schneider	Keith H
Schneider	Ivy
Seaman	James
Seaman	Eileen
Seaman	Barb E
Smith	Wm Lewis
Smith	Theodore H
Smith	Navarro
Smith	Merrill L
Smith	Mark E
Smith	Kevin R
Smith	Jefferson S
Smith	Darrell W
Smith	Dana
Smith	Christine
Smith	Chester H
Smith	Caroline
Smith	Chip
Smith	Mary
Steinwinder	L S
Stoneman	Tobert
Stouse	Eugene
Swann	Charles
Swanson	Dric V
Sweeney	Thomas R
Terry	Noel
Terry	Burdie
Walker	Gordon
Walker	Gerald T
Walker	Furman L
Walker	Edwin R
Mackey	Francis J
Mackeen	S T
MacIntosh	Donald
Mach	Christy
MacGuire	B J
MacGregor	B J
MacGovern	Robt N
Macey	Wayne
Macey	E Christopher
Lowery	Bill
Lowenthal	Emil
Lowell	Pati
Lewis	Julian R
Lewis	Joseph D
Lewis	John E
Leeman	Daniel

Lee	Rory T Y
Lee	Romaine
Lee	Marjorie
Lee	Marion A
Lee	Kunchull
Knudsen	Stephen A
Knudsen	Sara M
Knowles	Katherine
Knowles	Jennifer
Knight	Margot H
Knight	Franklin
Keeler	Charles
Keel	B
Keehner	J Martin
Keefe	Edward M
Keefe	Debra
Keefe	Braian
Holden	Wesley M
Holden	Warner
Holden	Wallace
Holden	Vincent E
Gelinas	Vernon B
Gelinas	Velma
Gelinas	Todd
Bittner	Theodore C
Bittner	Ted
Bittner	Stacey E
Brunner	Sam
Brunner	Reuben
Brunner	Raymond
Brunner	Patty
Brunner	Monroe H
Brunner	Monica
Brunner	Moira
Collins	Mitch
Collins	Miles
Collins	Maurice Carl
Collins	Martin
Collins	Marion
Collins	Marilyn S
Collins	Marie W
Collins	Maggie
Collins	Lynette
Collins	Kimbrelly A
Johnson	Howard
Johnson	Greg
Johnson	Emery
Johnson	Edgar M
Johnson	Dixie L
Johnson	Darrell
Johnson	Clifford P
Johnson	Carrie
Johnson	Byron
Irwin	Stewart H
Irwin	Ricky
Irwin	Tracey
Irwin	Louis E
Irwin	Jim
Irwin	Frederick Dale
Irwin	Dean L
Irwin	Chris
Fahrner	William Maj
Fahrner	Wayne
Fahrner	Walter
Holland	Victory
Holland	Marion

Holland	Tammy
Holland	Sandra
Holland	Pauline
Holland	Melvin
Holland	Linda
Herbert	Lennell
Herbert	Julie Jr
Herbert	Jos A
Herbert	John
Herbert	Isabel
Herbert	Douglas C
Herbert	Clayton W
Herbert	Charrick L
Gilmore	Scott
Gilmore	Ronald F
Gilmore	Orris F
Gilmore	Ned D
Gilmore	Mike
Gilmore	Margo
Gilmore	Jessie S
Gilmore	Hugh R
Gilmore	George E
Gilmore	Edward Sr
Gilmore	Donald L
Knox	Wilfred C
Knox	Tonya
Knox	Terry
Knox	Robert Jr
Knop	Peyton H
Knop	Mary W
Knop	Marguerite A
Rose	Lester A
Rose	Kent
Rose	Judy
Rose	Jess T
Rose	Jerome C
Rose	Jacob
Slay	Howard
Slay	Herbert N
Ford	Henry P
Ford	Gene
Ford	Dwight D
Ford	Declan
Ford	Connie
Ford	Clyde
Ford	Caroll
Ford	Calvin R
Ford	Bruce
Ford	Brendan
Ford	Barry
Beall	Willie Jr
Beall	Walter S
Beall	Vernon L
Beall	Todd
Beall	Timothy R
Beall	Thomas C
Beall	Stuart J
Beall	Sidney L
Beall	Sarah
Beall	Ruth
Beall	Russell
Beall	Richard L
Beall	Preston
Cocke	Phyllis
Cocke	Peter Y
Cocke	Norrene D

Cocke	Mitchell
Cocke	Marianne
Cocke	Lucy M
Gibbs	Kirk
Gibbs	Kenny
Gibbs	Keith E
Gibbs	Karen L
Gibbs	Julius F
Gibbs	Julia
Gibbs	Judith A
Gibbs	John
Gibbs	Joanna
Gibbs	Jeffrey
Gibbs	Jeanette L
Kasse	James K
Kasse	James D
Kasse	Jack P
Winer	Herman
Winer	Haydn K
Winer	Gregory C
Wine	Glorious
Veach	Glenn
veach	Gidwill
Veach	Gerald E
Veach	George E
Veach	Geoffrey
Evans	Gaynelle
Evans	Gordon
Evans	Franklin N
Evans	Frank
Evans	Elizabeth D
Evans	Eliot D
Evans	Eddie
Evans	Dwight
Evans	Doug
Evans	Dorothy
Evans	Donald
Evans	Dennis
Evans	David L
Steere	Thomas
Steere	Stanton L
Steere	Spencer
Steele	Sharon
Steele	Sandra
Steele	Rosetta
Steele	Robt E
Steele	R Corbin
Steele	Clinton
Steele	Kevin J
Steele	Kenneth R
Dorsey	Katheleen M
Dorsey	John
Dorsey	Jeff L
Dorsey	Harry Philip
Dorsey	George L
Dorsey	Elsie
Dorsey	Elizabeth M
Dorsey	Deboragh
Dorsey	Daniel K
Dorsey	Bryan
Dorsey	Bonnie
Dorsey	Barbara
Cooper	Williams
Cooper	William H
Cooper	Tommye
Cooper	Mimothy

Cooper	Thomas E
Hewitt	Ted O
Hewitt	Sue
Hewitt	Samuel M
Hewitt	Roger
Hewitt	Richard D
Hewitt	Ralph D
Hewitt	Pete
Hewitt	Paula
Hewitt	Patricia
Burris	Pamela
Burris	Norman GG
Burris	Nila
Burris	Neal
Burris	Nancy
Burris	Margaret K
Burris	Maldwyn J
Burris	Lynn
Burris	Louvenia
Coburn	Lonnie
Coburn	Leland Q
Coburn	Kyna
Coburn	Kevin
Coburn	Joshua
Coburn	John
Coburn	Jimmie Steve
Tyler	Jessie
Tyler	Jerry L
Tyler	Jennifer
Slater	Jeanne E
Slater	Jay
Slater	Jane
Slater	James D
Slater	Harry
Slater	Gregory
Slater	Graham
Slater	Glenn C
Murray	Geoffrey
Murray	Gary R
Murray	Douglas G
Murray	Eileen K
Murray	Donald F
Murray	Dennis C
Murray	David F
Murray	Darrell
Murray	Daniel
Murray	Claude E
Cooper	Christine
Cooper	Charles E
Cooper	Carleton
Cooper	Brooks
Cooper	Bradford
Cooper	Benjamin
Little	William S
Little	William
Little	Wayne
Little	Warren
Kiernan	Tommy R
Kiernan	Robert E
Kiernan	Randy
Kiernan	Patricia
Kiernan	Michael R
Browning	Kelly
Browning	Jeanne
Browning	Jan
Browning	James T

Browning	George M
Browning	Eugene
Browning	Earl S Jr
Browning	Doris J
Browning	Denver
Browning	Denton R
Browning	Chester H
Browning	Charles E
Browning	Bruce
Browning	Benji Howard
Browning	Ben H
Kapur	William R
Kapur	Wallace W
Kapur	Wade L
Kapur	Vernice
Kapur	Truman
Kapur	Tom E
Razer	Tobyn J
Razer	Margaret C
Ferry	Timothy
Ferry	Thomas
Ferry	Terry
Ferry	Teri L
Ferry	Teresa
Ferry	Tania
Ferry	Steven
Gross	Steve
Gross	Stephen J
Gross	Stanley F
Gross	Sonia M
Gross	Signe L
Gross	Sidney D
Gross	Shawn
Gross	Shannon M
Gross	Seven A
Gross	Scott D
Hayes	Sara F
Letts	Sandy
Letts	Sandra
Massa	Samuel
Massa	Sally
Massa	Ruth E
Massa	Russell B
Massa	Roy W
Massa	Rosemary
Payne	Ronda
Payne	Roland W
Payne	Roger
Payne	Robert Bruce
Payne	Robert
Payne	Rob L
Payne	Richard K
Payne	Rexford
Payne	Rebecca
Rolfe	Reba
Rolfe	Raymond E
Rolfe	Randall
Rolfe	Ralph E
Rolfe	Phyllis A
Rolfe	Philip B
Rolfe	Peter K
Rolfe	Peder
Rolfe	Paul B
Rolfe	Norris W
Rolfe	Michael

Jaffe	Mary G
Jaffe	Mark E
Jaffe	Margaret C
Kapsa	Marcia
Kraus	Lynn
Lutes	Louis G
Lutes	Loren
Marsh	Lloyd P Jr
Marsh	Lisa
Marsh	Linda K
Marsh	Lewis E
Stone	Leslie K
Stone	LeRoy J
Stone	Leonard F
Stone	Lee
Stoll	Lee Jr
Stoll	Lawrence M
Stoll	Larry D
Stoll	Lambert
Stoll	Kurk
Rosso	Kristen
Rosso	Kim
Rosso	Kevin N
Rosso	Kevin L
Close	Kenneth B
Close	Kathy
Close	Katherine
Close	Karl
Close	Karen D
Coons	Judith
Coons	Joseph G
Coons	John
Coons	Joe
Coons	Jane
Fahey	James
Fahey	Jack
Fahey	Herman C
Fahey	Herbert
Fahey	Henry W
Fahey	Helen P
Irvin	Harry P
Irvin	Harry G
Inman	Harold
Inman	Gregory P
Inman	Grace
Inman	Gordon E
Inman	Glenn
Inman	Glenda
Inman	Glen F
Inman	Gina M
Inman	Gilbert
Inman	Gerald O
Inman	George A
Inman	G Sydwell
Lucas	Frederick
Lucas	Fred A
Lucas	Franklin R
Lucas	Frank T
Lucas	Frances H
Lucas	Floyd G
Lucas	F Burr
Lucas	Edward L
Lucas	Eric
Lucas	Emmett R
Lucas	Emma O

McKee	Ellen L
McKee	Elizabeth
McKee	Edward L
McKee	Dwayne S
Stamm	Duane C
Stamm	Douglas J
Scott	Donald P
Scott	Donald H
Scott	Donald D
Scott	Delwin M
Scott	Cynthia
Scott	Clark
Romas	Chris
Roman	Charles
Roman	Caroline G
Roman	Carlyn F
Roman	Carl A
Romas	Bruce
Roman	Brian
Roman	Brent
Roman	Bradley
Lance	Bowman C
Lance	Bobby D
Lance	Beverly
Lance	Bernard
Lance	Barton L
Lance	Barbara B
Noland	Henry Peyton
Ross	Charles Bryan
Wessels	Barry W
Staples	Victoria H
Keck	Homer C
Doherty	Hugh M
Hall	Patrick
Keefe	Kenneth L
Stultz	Ronald
Robinson	Mark
Pannell	Dollie
Mattson	Melanie
Hayward	Mary
Burton	Steven L
Hartley	Leon F
Patton	Robin Dee
Monaghan	Dennis P
Lynn	Donald H
Kann	Stephen
Fox	Eugene
Thomas	Roger E
Shomo	Leslie C
Mertins	Gerhard G
Buschmeyer	Dane F
Coonan	Betina
Kilborn	Edgar
Ziern	Wolfgang
Verdery	Joseph H
Snetman	Paul
LeClair	Gene
Buscovich	Melanie
Hartshorn	Merrill F
MacNamara	Lawrence
Wessinger	Hugh Jennings
Singletary	Michelle
McKowen	Emmett
Wertman	Douglas A
Shoon	Fred
Wood	William

Gernald	Clarence R
Cooney	Donald
Babei	Malak
Graham	Lee
Johnson	Winston E
Freeman	Charles
Quintano	Joseph H
Tallia	Randy
Wessus	Benyam
Smith	Marian
Reeder	Bernard P
Merwald	Gerda V
Isadore	Richard J
Beams	Gregory
Carnock	Michael
Taylor	Jeff
Merski	Richard
Knepper	Randolph L
Manto	Damon
Stokes	Donald
Ballou	Catherine H
Chrisinger	Edw L
Marie	Louis
Kuan	Perng
Vouvalis	Nausika G
Rawson	Marshall
Genovese	Carroll F
Brown	Milton
Hale	Thomas M
Linders	Michael
Popchak	Chris
Nolton	Becky
Luebeck	John B
Hurwit	Paul
Gaylord	Brian
Balthrop	Deborah
Dorosin	Robert T
Loucas	Nicholas S
Noshirvani	Hamid F
Woodall	Gary
Walthall	Benj R
Potter	Cynthia
Infante	Manuel
Brownlee	Bruce
Gernando	Eleanor
Hudnall	Charles W
Mallgraf	William
Yolton	L William
Shurts	Robert
Phongsavan	Chamrath
Mertins	Gerhard G
Lawhorn	Chas G
Christen	Roy E
Finkenbinder	Thomas C
Hollomon	Duncan
Parrado	Maria
Reyna	Christine
Yoegel	Eric P
Weisberger	Doug
McLaughlin	Brain M
Knater	Hershel
Anderton	Frank
Dowdle	Billy
Larco	Lorianne F
Musser	Carl W

Naeher	Edw W
Masoller	Edwardo
Chatelain	Fred D
Jobber	Claude R
Nyborg	Ellen J
Dorsett	Charmaine
Grasse	Mark
Miller	Chris
Rawson	Bruce S
William	Harold
Mussen	Cliff
Mervis	Bob
Lose	Graydon I
Lazzari	Fernando
Kanoza	Douglas
Herwitz	Jonathan
Gonsky	Robert
Demory	Calvin
Cook	Benjamin
Guernsey	David
Flester	Toni
Ali	Mohammad
Burnham	Gary
Fletcher	Herbert
LeBlanc	Christopher M
Quinn	Charles
West	Clarence L
Spencer	Helen K
Ragan	Thomas Edward
Gawsett	Christy
Beane	Debra E
Busch	Richard A
Holtzman	Scott
McGee	Gloria J
Phipps	Barbara
Mertens	Frank E
Hopkins	Frank J
Gonet	Edw A
Cox	Janice
Bean	Harold G
Culver	Ralph
Hill	Brenda
Rodgers	Philip
Gomez	Raphael
Dowd	Robert
Borders	John M
Northrop	Carl W
Wolff	Raymond H
Tracy	Harold
Sarahan	Josephine
Mitchell	Gilbert H
Loftus	Susan
Beard	Donaldson E
Falcone	Jolene Penick
Irvin	Wayne M
Rugbart	Dennis
Peel	Christopher
Mangum	Wade
Goodwin	Everett C
Askins	Paul W
Cummings	Jerome J
Gunn	George D
Lewis	Kathleen
Rinkerman	Gary
Paolozzi	Thomas
Tomason	Geoffrey D

Glaser	Ronald
Carlin	Joyce Y
Fretz	Tammy
McBride	Stewart
Williamson	David W
Stull	Bernard
Roberts	Tracey L
Irwin	Harry E
McGrath	Michel V
Thornton	Elizabeth
Shoot	Tony
Peeples	Deborah
Meruvia	Louisa
Holzman	Charlotte
Fernandez	Ricardo
Keelean	Susan
Nelson	Kristine K
Thompson	John F
Ruffner	Ernest L
Haynes	Michael
McMillan	John C
Snider	Giovanni
Nolan	Donald
Bush	Chester k
Cooper	Bruce Michael
Lewis	Jack
Moran	Jearld V
Stumbo	Richard M
Puckly	Michael J
Campbell	William P
Fuller	Harry
Keebler	Gregory
Ravera	Robert
Hudgins	Howard H
Diamonstein	Kevin M
Brooks	Rose A
Fernstrom	John R Jr.
Verdin	Peter
Sokkappa	Balraj G
Minjack	Dolores
Hudson	Charles S
Anderson	J W
Anderson	J T
Anderson	J R
Anderson	J M
Anderson	J L
Anderson	J K
Anderson	J J
Anderson	J I
Anderson	J H
Anderson	J D
Anderson	J C
Anderson	J A
Anderson	J
Shin	Danny
Shin	Danny

Pease	96	100	182	149	92
Wyman	198	212	234	226	234
afshuf	55	40	22	65	148
iker	241	163	75	60	179
Imler	196	145	147	102	3
Pome	126	193	15	22	163
Pieruccini	62	93	113	2	129
McSpadden	110	207	35	93	93
Adel	243	62	220	193	116
----	150	214	20	100	60

Montalvo	203	16	192	57	100
Mori	11	5	241	24	151
Powell	27	103	163	170	69
Francke	208	44	204	149	250
Shapiro	71	88	166	83	236
O'Neal	99	242	196	12	60
Roineau	188	253	97	86	249
Archione	219	100	124	231	150
Lero	149	234	48	7	138
Simmons	1	26	38	31	48
Vaxmonsky	236	30	200	218	210
Miceli	176	93	131	16	57
Bowlsby	166	56	134	119	18
Burke	236	203	159	190	171
Russell	129	224	102	61	254
Yorkdale	223	163	97	171	107
Place	20	191	165	4	239
Hall	126	55	55	140	111
Alavi	218	5	207	170	125
Koumas	175	168	108	217	190
Coleman	95	31	5	42	165
Godwin	104	190	134	119	74
Ali	196	180	66	93	60
Stephan	240	81	81	126	51
Bean	252	64	206	67	82
Lawrence	186	71	155	36	23
Dix	255	245	239	154	125
Wilcox	184	70	104	16	216
DelToro	52	107	143	213	251
Burghal	236	169	29	252	215
Potter	20	156	184	181	2
Gardino	237	182	100	129	42
idham	202	194	206	93	84
leh	40	242	222	41	248
Norton	85	32	38	41	150
Isaacs	156	102	78	15	120
Jones	93	211	241	208	157
Matheny	138	244	244	111	18
McLellan	95	38	236	134	22
Brewington	88	51	183	30	81
Anderson	62	152	96	243	96
Vaught	172	89	171	159	197
DeFend	128	250	234	60	154
Moscatello	9	245	193	20	153
Rawoens	152	81	49	34	175
Johnson	192	189	185	48	163
Emory	82	244	214	93	116
Maitra	186	20	224	245	30
Provenzano	199	240	118	233	148
Pallotta	158	29	43	224	189
Kably	87	55	51	152	119
Carriker	231	171	109	38	163
Escher	161	174	188	181	102
Thompson	131	44	0	147	156
Kendrick	229	149	71	132	197
Kemp	109	203	19	162	131
Kaplan	185	171	159	106	125
Gates	14	204	226	59	176
reman	249	42	40	147	112
nbar	179	98	124	113	66
Crawford	122	32	252	23	156
Coleman	95	31	5	42	165
Chamberlain	190	210	26	135	50
Briggs	198	218	168	49	74
Birch	254	40	70	185	136
.....	100	00	00	100	100

Aloma	163	232	20	213	206
Kallio	2	46	6	193	104
Kallen	95	33	235	244	139
Kaye	85	210	48	7	194
Kemper	202	74	128	247	60
Krause	165	99	67	218	21
Morris	86	152	158	113	228
-inz	48	135	251	71	55
P liam	185	226	220	141	138
Schlosser	163	48	224	203	108
Smith	126	51	63	120	95
Terry	205	34	246	163	2
Herbert	183	102	138	43	182
Herbert	183	102	138	43	182
Ford	68	123	155	226	77
Ford	68	123	155	226	77
Evans	109	97	83	102	27
Evans	109	97	83	102	27
Evans	109	97	83	102	27
Dorsey	177	110	86	17	82
Cooper	28	34	56	21	208
Cooper	28	34	56	21	208
Cooper	28	34	56	21	208
Cooper	28	34	56	21	208
Cooper	28	34	56	21	208
Cooper	28	34	56	21	208
Cooper	28	34	56	21	208
veith	16	164	88	134	56
Veith	136	114	154	16	64
Slate	57	189	137	46	115
Slate	57	189	137	46	115
Krohl	133	144	130	83	64
-ohl	133	144	130	83	64
opp	50	212	250	45	148
K.opp	50	212	250	45	148
Kropp	50	212	250	45	148
Kropp	50	212	250	45	148
Anderson	62	152	96	243	96
Anderson	62	152	96	243	96
Anderson	62	152	96	243	96
Nash	253	92	108	195	208
Lebowitz	22	212	162	217	248
Hurtado	236	107	153	122	21
Fortney	82	13	193	144	171
Philpot	200	130	138	15	50
Willey	158	98	66	104	58
Roslyn	7	151	51	76	217
Kautz	120	95	251	146	157
Zumstein	137	205	53	183	125
Hiles	109	253	239	242	141
Merz	37	80	36	227	36
Azar	38	168	46	65	112
Rawlins	42	226	116	41	172
Winter	64	151	131	131	79
Christensen	199	16	210	1	50
Sadur	133	183	113	228	203
Allam	47	211	199	142	169
Puff	36	69	151	194	215
-Imberg	194	79	91	220	211
eber	39	129	163	160	165
Gawkowski	78	85	101	134	93
Saenz	57	205	115	86	205
Cavazos	219	153	35	34	11
Hatcher	67	223	63	32	93
Dorsey	177	110	86	17	82
-	102	44	174	101	20

Snider	92	19	217	26	101
Lazo	149	26	132	3	24
Venable	224	147	175	59	1
Chrisman	196	181	153	170	201
Stuart	123	181	121	40	231
Yasuda	15	115	121	147	17
Horton	190	190	178	223	92
Chrismon	17	189	125	132	65
Lwig	147	148	118	161	158
Einhorn	130	171	111	72	115
Tate	217	180	190	49	98
Merriman	149	65	65	80	51
Labarski	57	79	115	26	171

```

----- BIT_ARRAY at Stack Level : 1 -----
0110000101 0100111100 1010000110 0000001111 1010000110
1010010100 0010100110 0100000010 0010011110 0011011001
0000100001 1000000000 1111001011 1101001110 0000000101
0010001010 0101011000 0010011101 0001111010 1010101011
1011010010 0000000111 0001100001 0100001100 1101000001
001111

```

```

----- BIT_ARRAY at Stack Level : 2 -----
0000010000 0001001001 1000001001 1111100010 1010101010
0100011000 0010110001 1100100001 1100010011 0011010111
1011000100 1000110000 0001000001 1000010000 0000110111
0111001000 0001100011 0100100000 1111000001 1101100000
0001110100 1110100010 0001101000 0010100000 1010110000
100100

```

```

----- BIT_ARRAY at Stack Level : 3 -----
1000011000 0000010001 1010001001 0000011010 1001001011
1010110000 0001011100 1100010010 0101001010 0100001100
101000011 0101011010 0100110010 1110100110 0001000100
001110011 0011011010 0100110010 0011110010 1011001001
1000101100 1000100100 1010101000 0000111001 0100101000
111000

```

```

----- BIT_ARRAY at Stack Level : 4 -----
0111100100 0010011100 1111101000 1110101010 1111011011
0000000101 1100010100 0110001000 1001001000 0001000000
0010101001 0101000001 1010001001 0110110000 1110101101
0010100001 1111000000 1100000000 0101010000 1001110000
0001000010 0001000110 1001101110 0101000000 0011110100
001000

```

```

----- BIT_ARRAY at Stack Level : 5 -----
0111000000 0100000110 0111100100 1000001010 0010000010
1100011110 1000111001 0000100101 0110100000 0011011010
1110100110 0110011001 1000010001 0100001011 0100000010
1101101110 0001010001 0110011001 0010000011 1000100100
0101011010 1100011100 0000000010 0100101001 0000000011
110010

```

Pickett	99	34	248	39	232
Johnson	192	189	185	48	163
Zimmerman	254	234	14	248	202
Barnes	29	221	161	42	33
ahoney	194	229	229	130	155
elds	101	85	177	128	61
Elig	120	11	227	16	17
Brookes	129	25	71	0	7
Cothran	255	129	67	186	83
Grossman	51	224	222	235	124
Hedstorm	39	150	156	219	128
...

Bonbrest	164	119	1	74	87
Marten	234	19	233	238	117
Pulley	202	167	175	244	19
Lang	164	72	94	217	228
Shields	214	182	168	175	234
Lucckese	136	173	159	158	109
Skilton	48	10	228	147	158
axfield	114	254	208	3	4
E tson	27	32	166	245	178
Carroll	235	127	137	226	91
Kuhn	232	152	128	125	208
Sandoval	26	14	254	61	26
Prochl	36	178	100	157	196
Kay	120	191	181	96	103
Rosenfield	5	181	229	242	227
Stubblefield	216	237	241	54	167
Street	216	229	33	36	5
Waring	57	16	12	244	232
Shields	214	182	168	175	234
Faucette	141	57	225	230	129
Wingrove	172	55	25	163	163
Martiney	89	121	71	136	213
Stepp	14	142	190	91	156
Eaton	211	67	79	206	157
Mundy	200	165	155	0	67
Johnson	192	189	185	48	163
Klein	248	247	207	182	165
Smith	126	51	63	120	95
Wiggins	13	104	118	144	126
Miercort	120	105	79	86	185
Huff	235	103	111	128	141
DerBogosian	243	33	81	71	169
ear	165	187	129	120	229
, nderson	196	62	200	137	58
l, nson	250	1	19	86	1
Sedlak	27	30	244	169	80
Friedlander	87	196	218	59	210
Elmore	211	214	32	247	120
Howie	230	160	72	223	222
Faria	192	103	157	222	15
Ryon	193	38	132	139	120
Borys	245	75	27	144	69
Cumberland	129	225	239	146	33
Long	133	64	186	247	108
Steele	126	78	112	199	84
Thomson	150	248	198	31	32
Quattlebaum	161	29	213	196	139
Sabatier	3	207	243	58	159
Tilly	255	170	96	243	102
Wynkoop	175	9	13	119	227
Zachem	23	28	250	140	146
Hoyle	83	29	37	8	235
Leblane	68	51	39	242	247
Tinder	196	218	32	153	188
Dolan	39	94	80	153	34
Burns	208	224	124	65	102
Mann	219	4	.16	51	196
Jerris	252	177	153	130	219
ManMeter	230	234	218	1	206
ley	230	177	111	162	165
Nadolski	184	79	107	224	111
Scott	99	245	11	224	7
O'Dell	19	113	181	99	27
Moreau	103	221	63	68	17
Shau	156	221	217	248	225
Stalaw	110	50	50	107	10

Bronson	232	63	187	6	139
Mohajeri	44	123	173	42	7
Kuprewicy	76	79	135	158	173
Geier	158	192	238	193	166
Schmidt	98	54	22	133	196
Wonderly	33	46	250	88	130
Krafft	197	54	18	41	58
O'Brien	134	91	149	214	233
Stalds	214	182	168	175	234
Smith	126	51	63	120	95
Naraghi	103	36	22	167	70
Symonds	48	195	33	36	7
Krokus	97	77	91	242	17
Snyder	204	121	119	124	197
Donlan	216	34	54	59	10
Strange	40	30	200	241	138
Miron	9	121	151	186	191
Barnes	29	221	161	42	33
Oconner	11	118	148	209	192
Friedrich	102	130	130	163	246
Ballentine	82	94	50	155	56
Earmratana	72	250	10	113	174
Iorio	108	104	106	59	20
Bradley	4	157	197	210	229
Rassin	68	68	206	195	80
Kraus	189	14	198	189	176
Edwards	16	164	90	197	18
Lake	244	225	59	174	67
Blagrove	121	90	230	69	98
Bywaters	13	211	123	222	19
Lairmore	241	5	237	174	191
MacKnight	192	196	240	84	130
Winley	201	213	27	228	49
Wass	10	12	244	29	76
Klusser	26	97	245	104	65
Danner	127	152	118	53	210
Bromley	72	38	136	161	250
Greenbaum	19	240	42	173	206
Moore	20	118	122	143	92
Fray	178	254	202	81	136
Ness	221	55	223	244	39
Le	154	89	187	38	77
Liston	31	205	35	98	225
Mullin	99	205	61	170	207
Fields	101	85	177	128	61
Clark	44	227	53	234	15
Schever	63	36	194	233	200
Boudreaux	84	211	75	252	21
Strnad	230	130	186	137	0
Yost	234	195	193	87	113
Patel	243	82	136	31	126
Creasy	73	251	195	122	67
Choi	56	237	213	222	161
Rogers	87	214	74	165	228
Kuhn	232	152	128	125	208
Wallace	236	15	205	63	45
Chisholm	43	105	117	106	167
Kaplan	185	171	159	106	125
Winsey	251	187	111	240	163
Watts	241	231	233	219	113
Huang	67	27	15	24	129
Galvin	24	33	221	58	29
Salerno	41	60	232	83	200
Billings	131	92	52	69	186
Ray	255	82	6	7	216
Schroeder	87	115	181	200	55

Sprouse	173	117	167	182	31
Irvin	224	86	120	135	90
Clough	139	152	86	67	110
Ogg	134	11	59	114	103
Apodala	43	124	130	237	194
Hardy	181	86	148	35	56
Zambrana	169	42	208	204	118
Hompson	131	44	0	147	156
Foster	93	154	162	173	62
Ryan	64	46	96	165	240
Powell	27	103	163	170	69
Melander	48	86	166	243	18
Perkins	91	196	208	221	4
Galbraith	0	38	210	241	140
Meadows	204	246	244	41	214
Beach	229	191	63	50	209
Graf	244	156	116	11	246
Symmonds	231	114	128	181	188
Waller	253	23	3	213	167
Baker	149	155	199	178	73
Speake	203	101	113	18	173
Suchy	238	166	188	113	16
Welsh	203	61	237	43	39
Boyer	35	87	231	172	137
Hill	254	33	221	82	137
Dunn	231	73	189	108	143
Wieboldt	251	118	96	224	238
McCahill	243	21	249	27	125
Katona	253	174	134	151	128
Usack	157	253	225	161	251
Bishop	45	157	211	170	95
Lundin	178	112	132	95	192
Boy	222	90	226	41	80
Annnett	83	162	212	111	248
Wilson	250	1	19	86	1
Ford	68	123	155	226	77
Gibson	36	146	178	169	138
Brown	61	222	180	21	56
Frakes	177	38	242	93	12
Haluska	108	157	161	38	5
Grabes	243	130	176	71	84
Strauss	240	95	117	2	193
Mahefky	43	99	151	146	131
Garside	112	45	227	216	97
Shepherd	0	51	239	100	149
Knight	203	199	193	86	241
Turuiman	77	247	245	74	169
Wilson	189	182	182	252	216
McCabe	149	81	145	205	221
Lachat	147	93	165	184	101
Reikowsky	150	180	0	15	0
Galligan	97	163	97	130	151
Hupp	254	103	111	128	141
Lev	252	27	207	56	43
McCrary	177	251	225	159	193
Mace	188	110	180	101	214
Ananka	36	218	230	151	28
Huber	126	174	180	177	234
Domdom	66	232	20	69	102
Dingley	129	42	18	25	172
Fletcher	166	43	219	140	139
Reams	130	112	230	251	206
Walsh	195	163	145	165	165
Humes	39	202	50	45	250
Kraft	195	124	98	61	140
Willa	110	80	160	0	220

Serra	68	151	75	152	157
Nardella	19	217	193	10	17
Roberts	207	135	241	56	25
Anderson	62	152	96	243	96
Charity	45	108	150	185	116
Merle	197	219	49	116	49
Mills	99	99	131	182	75
annett	83	162	212	111	248
C nclique	97	86	72	47	58
Kim	247	151	67	126	91
Allbright	61	77	151	140	15
McGinnis	84	72	90	116	64
Moore	20	118	122	143	92
Elkin	147	207	3	0	19
Silva	221	157	103	74	87
Fitzgerald	255	4	138	149	52
Nichols	117	118	116	119	230
Taplett	43	74	186	11	48
Rogers	87	214	74	165	228
Brown	61	222	180	21	56
Jacob	35	15	251	242	49
Perez	203	44	126	121	112
Wilhoit	75	48	0	250	98
Woolfenden	192	237	223	45	109
Beck	177	131	9	88	195
Reiss	53	166	212	239	250
Coletto	98	218	38	55	190
Thompson	131	44	0	147	156
Gentry	96	81	175	72	173
Hall	126	55	55	140	111
Sinonton	62	122	78	169	208
Manning	179	110	154	117	46
iles	73	92	72	254	250
senberger	81	14	114	81	14
eriot	213	49	233	248	45
Throgmorton	156	107	81	122	195
Ko	133	56	236	31	142
Szabo	205	111	197	48	55
Cundiff	48	79	177	112	211
Ashley	53	70	166	229	76
Vdovjak	111	243	193	75	251
Jamerson	13	125	191	154	27
Tribble	135	100	128	107	112
Gaskill	204	229	1	32	219
McCloud	215	29	223	85	9
Hong	121	176	74	211	204
Kane	168	33	235	244	139
Guiton	96	226	46	89	216
Zewan	134	69	167	65	247
Bailey	174	150	200	27	18
Lappine	21	51	55	90	131
Aikens	117	95	111	62	57
Wirtz	137	160	62	42	186
Shannon	160	249	3	120	163
Wright	1	241	41	119	221
Higgins	41	201	209	156	9
Keener	102	62	4	47	182
Bell	136	207	81	8	93
Stokes	58	79	163	166	115
r	58	81	45	134	223
Williford	62	58	26	68	16
Clark	44	227	53	234	15
Austin	77	48	62	247	86
Wright	1	241	41	119	221
Mazur	196	109	249	136	99

Robinson	240	242	96	183	238
Collins	154	100	124	197	252
Robson	50	107	21	34	7
Gurney	24	24	2	135	78
Chandler	120	63	17	96	155
Nerio	74	197	199	54	83
Ellyson	213	164	126	7	148
arcum	174	253	39	68	23
F er	182	139	181	152	95
Bass	192	81	45	134	223
Wang	124	25	9	241	51
Mileham	152	121	95	140	207
Verasin	117	14	208	250	6
Hayes	23	164	118	225	194
Deremer	164	54	56	127	84
Chatfield	148	234	14	249	248
Berman	188	29	121	224	243
Priestly	232	86	176	249	138
Freezer	159	37	67	208	9
Foster	26	143	99	56	139
Cross	45	96	102	57	102
Shepard	36	41	37	8	11
Gustafson	126	190	180	147	136
Hinderman	1	224	30	179	134
McLaughlin	91	186	92	158	96
Neal	94	4	232	129	200
Schweickert	117	50	252	151	138
Bigby	44	115	205	190	131
Shin	55	20	244	97	234
Jones	93	211	241	208	157
German	184	118	70	75	118
Corey	50	130	94	15	162
key	77	162	122	37	138
erson	176	22	46	1	192
utt	24	46	32	17	198
Craddock	12	223	199	128	223
Catsis	175	139	139	56	19
Koroljow	87	103	175	194	15
Hart	20	49	45	148	83
Oloff	63	46	230	217	110
Robinson	240	242	96	183	238
Reed	206	44	74	115	178
Isenberg	202	59	209	66	79
O'Connell	190	23	217	225	45
Saikin	213	205	209	60	57
Dunn	231	73	189	108	143
Speers	39	64	158	243	208
Wilson	189	182	182	252	216
Pedersen	169	104	178	71	192
Rinker	230	125	221	30	225
Mrstik	235	46	224	207	94
Dorn	174	129	113	222	215
Wesling	150	211	209	143	209
Korsh	92	33	53	148	225
Webster	116	90	66	78	178
Helseth	162	27	195	106	211
Roberts	207	135	241	56	25
Ortmeier	175	181	133	254	59
enerson	171	165	131	118	253
ynes	73	216	16	67	234
Ziauddin	146	156	142	238	202
Coats	172	228	252	147	20
Wojcik	165	83	169	151	193
Pham	23	32	216	189	146
Berneking	162	19	87	216	9

Richards	112	36	88	23	140
Rice	100	161	245	222	77
Jamieson	146	116	186	159	192
Lewis	77	218	220	103	184
Spangler	213	224	204	203	216
Shackelford	103	192	24	155	248
Denhartog	102	130	72	75	108
Jong	212	61	57	218	11
Normack	205	158	174	250	48
Paschal	228	212	22	51	24
Rabbee	163	221	187	86	185
Stewart	60	108	80	135	218
Terango	34	198	32	159	218
Pollack	85	162	138	89	4
Strisik	158	53	45	52	99
Chankeris	175	34	196	61	254
Burnham	48	87	235	128	143
Cox	202	118	144	47	138
Andrews	247	8	22	187	186
Smith	126	51	63	120	95
Varela	76	213	235	65	105
Hashem	183	30	220	195	4
Brill	93	171	209	106	35
Roubik	5	144	220	175	196
Peters	84	145	85	100	71
Suarez	168	254	162	35	58
Perez	203	44	126	121	112
Brock	92	249	135	202	211
Gilbert	149	207	225	116	53
Park	20	178	160	157	6
Akar	56	197	9	76	33
Fehlner	128	186	144	53	50
Cobbins	43	61	83	182	177
McDermott	27	209	251	97	181
Wales	54	30	96	245	104
Dolbow	83	117	151	92	7
Waterman	93	195	49	37	53
Dendor	159	238	252	117	94
Simmons	1	26	38	31	48
Buress	240	128	230	223	130
Hamidi	255	132	158	209	248
Weymes	32	42	12	242	140
Ellis	170	73	171	4	179
Brendel	14	240	98	175	46
Hancock	122	251	53	136	193
Briggs	198	218	168	49	74
Barnette	244	193	93	22	237
Menz	114	192	84	115	22
Marlatt	45	219	49	116	49
Cunningham	63	120	168	245	124
Jansen	232	167	115	92	61
French	176	16	250	255	232
Shim	114	217	51	82	121
Back	185	29	117	214	65
Thornton	78	66	98	111	230
Brown	61	222	180	21	56
Drennan	162	228	16	151	250
Omidyar	110	205	211	146	109
Cook	106	60	20	173	250
Widson	248	74	136	187	8
Covill	66	43	23	34	219
Hills	118	80	164	9	224
Edwards	16	164	90	197	18
Escovar	186	13	31	0	49
Roderique	238	34	182	9	80
Ward	222	210	22	100	117

Cullen	40	197	47	236	155
Gorrell	210	95	115	100	119
Manner	124	133	131	102	123
Wright	1	241	41	119	221
Page	27	139	181	122	147
Larson	181	221	211	164	59
Smith	126	51	63	120	95
Stephens	225	190	84	171	216
Myphy	231	103	147	50	253
Chacho	154	120	168	211	236
Thomas	251	140	68	147	128
Wilson	189	182	182	252	216
Kronfeld	115	77	175	172	75
Spetzman	182	66	24	97	236
Fields	101	85	177	128	61
Main	182	157	101	166	45
Underwood	243	217	193	153	225
Samuels	53	52	252	43	66
Bourie	182	158	232	47	236
Singh	174	231	11	178	233
Karel	191	113	85	248	113
Gates	14	204	226	59	176
Hoff	245	63	211	162	231
Dwyer	140	243	63	160	201
Meadows	204	246	244	41	214
Davis	177	207	251	18	163
Bechtel	42	11	129	10	189
Richter	54	35	89	36	109
Kerson	139	180	96	179	112
Floyd	38	216	254	29	254
Plunkett	23	223	195	250	187
Davis	177	207	251	18	163
Hallory	123	156	166	151	16
Finneen	200	115	105	28	163
Dehan	247	203	231	26	183
Linden	209	190	160	221	160
Kramer	213	236	44	199	24
Kolczynski	150	245	149	32	65
Lambert	230	85	177	34	53
Whitely	50	204	54	60	200
Perry	167	4	14	17	214
Pfister	86	83	179	32	149
Connolly	176	248	208	157	178
Receveur	25	73	37	32	53
Sorrough	191	221	223	194	197
Pruitt	13	76	146	199	12
Gregory	136	35	49	230	21
Greenstreet	142	196	244	61	60
Norton	85	32	38	41	150
Trusty	186	155	177	98	55
Stroup	3	131	87	160	245
Miller	76	147	105	184	157
Hull	65	103	111	128	141
Magill	5	18	252	215	6
Quick	28	67	157	72	31
Bean	252	64	206	67	82
Scott	99	245	11	224	7
Pabst	29	198	242	219	162
Kramer	213	236	44	199	24
Yes	82	208	134	181	150
Kramer	213	236	44	199	24
Ayoub	74	14	214	225	230
Emsat	71	4	236	97	200
Nong	146	46	222	37	6
Hicks	79	28	252	89	126
Van	140	27	41	105	17

Aleman	54	2	234	215	236
Takesian	216	14	62	93	202
Woodring	111	225	253	209	227
Boyce	118	188	208	175	36
Lenortarage	205	170	182	221	74
Noel	126	12	12	175	64
Davis	177	207	251	18	163
onikowski	72	252	36	243	14
r ns	211	79	125	116	223
Rubenstein	5	187	205	120	13
Ramzi	250	175	87	156	187
Beatson	27	32	166	245	178
Jennings	211	62	0	243	240
Boyd	100	212	124	53	26
Clark	44	227	53	234	15
Cole	198	33	59	240	17
Landin	141	32	220	83	34
Westman	93	173	167	165	97
Sweet	205	244	54	17	100
Karimi	60	109	191	146	167
Smith	126	51	63	120	95
Dwyer	140	243	63	160	201
Godbout	198	202	6	163	106
Guy	119	229	247	112	217
Basil	125	5	137	118	191
Carpel	240	17	15	96	63
Stevens	13	172	80	219	30
Cho	31	8	198	233	96
Buursink	241	237	183	242	75
Barbera	170	135	25	108	133
Braden	96	174	208	189	100
Hollander	50	51	215	112	123
Torrester	229	226	230	95	46
elius	25	192	218	225	130
eeney	217	128	100	175	174
Tirado	140	195	39	114	185
Babin	10	128	16	119	238
Goldyn	35	3	235	160	127
Payne	10	139	145	90	217
Brandis	22	87	63	182	105
Stonecypher	17	80	186	101	210
Seng	83	235	43	0	145
Birkhimer	226	177	63	26	211
Kahan	14	59	33	152	21
Blake	11	183	31	28	155
Unruh	2	132	94	212	192
McNamara	124	4	220	50	80
Greenwell	110	35	19	30	183
Cole	198	33	59	240	17
Leighton	194	166	150	111	50
Barr	58	81	45	134	223
Even	236	142	86	179	240
Bell	136	207	81	8	93
Pullis	40	209	253	174	127
Knight	203	199	193	86	241
Trahant	178	62	4	205	206
Vemeyer	109	43	57	29	123
Theresa	242	42	238	247	142
Friedrich	102	130	130	163	246
awford	122	32	252	23	156
Mortonson	142	123	151	94	25
Read	199	178	54	253	48
Nutty	45	118	70	39	38
Lee	118	52	62	65	232
Schwalenstocker	43	18	218	235	74
mielkemeier	207	22	206	202	124

King	18	169	123	158	203
Smeeton	111	213	225	200	5
Lause	87	120	154	113	198
Quiroga	19	24	200	215	16
Klotz	190	52	112	197	24
Gawarecki	190	246	62	219	192
Burneko	84	76	228	219	44
ewis	77	218	220	103	184
Pinip	156	11	253	206	83
Doying	128	244	54	89	110
Small	216	75	111	110	131
Dupuis	223	170	176	105	94
Peacock	121	200	46	15	22
Priester	109	152	80	97	156
Justus	212	162	122	163	240
Price	1	133	151	116	219
Craig	175	126	110	243	44
Parker	179	51	51	200	185
Sikora	127	67	175	92	101
Artin	240	14	240	123	224
Koah	146	79	163	20	181
Bayless	112	115	219	44	211
Longmire	38	149	155	4	169
Myongsun	98	162	110	33	130
Randall	187	80	44	209	154
Talbert	74	208	46	251	104
Bradfield	141	191	19	108	223
Perkins	91	196	208	221	4
Fleming	17	24	248	247	232
Piper	210	86	112	201	208
Wood	6	103	97	165	19
Burks	146	215	99	130	103
Ngge	26	176	68	15	190
McCarthy	57	121	77	101	225
Illmerhausen	85	235	237	251	175
Bilodeau	136	67	193	164	53
Young	114	116	140	178	208
Saulsbury	135	96	154	63	58
Villanasco	38	128	134	176	134
Wynne	27	135	81	95	251
Burns	208	224	124	65	102
Taylor	230	107	79	68	253
Deakin	97	166	108	243	8
Linhart	20	220	30	199	6
Koizumi	124	12	178	7	136
O'Laughlin	185	188	184	248	192
Ellington	90	218	60	97	80
Morales	128	207	41	102	117
Davis	177	207	251	18	163
Costello	104	129	157	218	57
Seaman	210	169	117	66	41
Mutz	91	152	26	121	120
Pucket	211	142	70	223	202
Smith	126	51	63	120	95
Hopkins	118	72	96	129	242
Hill	254	33	221	82	137
Smith	126	51	63	120	95
McIntosh	20	9	31	35	79
Crotty	198	239	219	104	7
od	216	203	227	8	81
Conzalez	101	16	34	179	176
Mabis	181	216	50	59	180
Pohorylo	160	58	248	253	18
Mallat	114	29	229	240	197
Drof	153	183	103	104	73
Johnson	100	100	100	100	100

Chae	179	109	167	160	77
Jackson	187	1	213	14	129
Stewart	60	108	80	135	218
Erienne	137	74	184	227	66
Trout	220	158	104	175	144
Marsden	24	138	148	83	22
Riddell	111	166	212	239	250
owdy	140	139	185	254	245
F adino	246	70	152	37	176
Sneeley	180	175	119	94	15
Perkins	91	196	208	221	4
Spruill	237	119	85	122	189
Hauver	189	87	113	34	115
Frame	58	173	83	246	247
Rierner	44	150	230	43	254
Sokloski	138	93	147	230	127
Concannon	188	131	181	20	67
Halpin	109	186	74	9	242
Davis	177	207	251	18	163
Daly	228	86	150	173	196
Kosarin	90	207	15	10	51
Monyak	129	71	175	102	11
Millerioux	168	212	38	137	192
Chaplin	126	141	95	66	117
Zeman	45	227	11	253	17
Walter	199	61	193	99	73
Rosenberg	193	143	225	4	177
Cont	224	26	26	131	114
Molina	101	166	182	253	74
Hyde	76	36	254	159	160
Pollack	85	162	138	89	4
Alston	133	77	95	126	53
imaye	249	113	77	56	113
ackson	187	1	213	14	129
nger	50	197	91	172	203
Nichols	117	118	116	119	230
Chamma	189	243	219	46	207
Israelian	50	200	62	57	56
Goins	240	218	250	205	82
Cavagliotti	159	253	53	90	209
Phillips	33	199	63	18	219
Lotz	172	3	113	192	25
Leahy	41	161	73	124	23
Johnson	192	189	185	48	163
Ward	53	120	142	126	46
Cannon-Brow	77	121	229	105	13
Weiss	92	237	255	57	91
Diegan	149	30	234	65	34
Mussel	108	249	3	196	75
Lagana	191	72	94	217	228
Moore	20	118	122	143	92
Szymanski	125	65	249	252	51
Hotchkiss	86	248	34	13	130
Curnyn	157	183	103	74	109
Ross	82	213	95	120	49
Burdtt	215	5	103	94	45
Bryan	227	78	224	71	140
Allen	95	128	124	51	184
toeger	82	7	207	26	143
ith	126	51	63	120	95
Spero	175	167	127	8	179
Zorn	120	219	221	23	157
Newsome	241	118	146	179	162
Dietrich	85	2	20	37	120
Yore	55	217	39	115	129
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Bryan	227	78	224	71	140
Peine	146	127	67	178	251
Casteale	201	178	170	175	214
Utter	170	178	170	22	148
King	18	169	123	158	203
Upfold	152	148	84	76	106
Claffey	108	166	98	143	248
Rowley	18	85	157	190	55
Dougherty	88	33	203	180	199
Sherwood	33	25	23	64	205
Chisholm	43	105	117	106	167
Gillice	19	163	79	146	111
Burns	208	224	124	65	102
Martin	54	155	127	190	17
Kluttz	56	134	192	205	84
Miklas	129	27	205	162	141
Budd	174	1	117	138	61
McFaul	117	14	198	160	170
Roets	106	35	175	110	219
Judnich	26	243	61	230	125
Lynnes	79	167	127	44	69
Soffe	0	159	175	182	21
Birdsall	171	43	89	20	65
Molloy	110	120	84	139	130
Harsher	61	175	125	82	191
Smyser	234	199	193	216	19
Gunderson	1	99	181	36	237
Dougherty	88	33	203	180	199
Burke	236	203	159	190	171
Wilkins	104	227	193	109	159
Morrow	211	224	228	247	190
Malin	166	93	171	58	229
Madrigault	160	129	117	28	137
Derrington	235	128	100	231	164
Mar	25	44	126	121	112
Adams	128	160	182	25	236
Connell	160	225	245	108	217
Norgard	229	163	73	162	37
Lantonio	1	200	216	181	40
Goins	240	218	250	205	82
Grouby	95	186	180	225	180
Donellan	170	143	125	192	103
Tempchin	60	210	206	169	38
Libbey	56	51	21	64	237
O'Brien	2	76	30	34	90
Merritt	110	127	127	138	135
Osman	36	68	124	243	186
Schwartz	2	78	16	117	138
Cutler	125	127	157	202	71
Fortman	216	173	161	222	243
Castellano	176	6	230	191	190
Watts	241	231	233	219	113
Jeffries	17	48	10	215	100
Denton	214	150	136	3	102
Hine	226	48	62	151	4
Aldrich	8	217	203	112	161
Bucher	16	3	113	12	41
Malvaso	246	255	55	196	139
Samman	210	169	117	66	41
Water	26	143	99	56	139
Rabung	227	185	203	166	143
Williams	6	86	72	74	202
Gosh	205	199	57	186	167
Williams	6	86	72	74	202
Holloway	232	175	135	240	83

Wall	90	150	144	128	24
Stonelake	169	28	14	77	120
Larson	181	221	211	164	59
Epley	163	43	241	78	171
Chandler	120	63	17	96	155
Myers	196	136	190	133	84
Deardorff	138	141	117	12	75
tearns	129	156	78	121	224
F eman	152	1	227	164	33
Ferguson	2	73	87	134	67
Vorasane	138	227	39	227	79
Childress	72	85	157	28	85
Showalter	119	57	57	20	135
Adams	128	160	182	25	236
Gross	85	222	224	49	200
Zook	40	251	201	33	41
Gehle	174	141	147	186	169
Hassan	168	184	168	199	96
Lee	118	52	62	65	232
Walker	8	156	180	40	70
Crossman	75	94	88	227	210
Bauckman	64	128	234	233	48
Jackson	187	1	213	14	129
Stallings	59	11	49	200	157
Delashmitt	128	21	211	132	15
Dietz	33	174	216	159	112
Escudero	186	112	190	185	60
Gannon	191	189	105	72	221
Burke	236	203	159	190	171
Tessman	10	147	117	40	215
Arnold	112	56	52	241	76
Ryan	64	46	96	165	240
humaker	215	166	146	93	204
Clark	44	227	53	234	15
in	64	46	96	165	240
Zayatz	196	243	95	87	63
LaFave	20	117	87	227	255
Herbert	183	102	138	43	182
Scuderi	144	203	63	108	63
Weinig	91	135	117	127	177
Mayes	2	151	81	94	105
Crider	249	253	243	80	155
Nichols	117	118	116	119	230
Sutherland	17	8	230	117	180
Porter	93	154	162	173	62
Hutchinson	198	97	131	210	7
Campbell	242	196	62	59	142
Elgin	79	119	133	178	57
Solack	168	141	69	244	193
Csulak	5	221	251	102	185
Faught	3	163	133	204	15
Shumar	13	128	110	91	64
Carter	49	3	29	104	119
Stillwill	9	244	54	17	100
Healy	17	21	193	38	99
Markwood	37	182	122	129	134
Alhagh	53	81	87	80	217
Barazotto	0	104	156	49	154
aron	49	9	11	72	143
ts	154	114	92	75	186
Castro	149	8	234	161	14
McManus	20	90	102	196	20
Von	181	19	205	237	153
Richardson	25	163	35	114	11
Jones	93	211	241	208	157
...

Derr	218	135	153	238	239
Howley	69	10	40	37	182
Brooker	99	132	40	105	116
Klimek	90	113	113	228	31
Clark	44	227	53	234	15
Patsey	0	108	130	137	190
Linden	209	190	160	221	160
Chaffer	84	248	202	121	44
Fanzalida	53	221	81	240	193
Scanton	229	243	37	26	237
Hillock	38	150	152	197	184
Holt	101	21	17	20	9
Morris	86	152	158	113	228
Jeffries	17	48	10	215	100
Monroe	41	10	28	45	116
Rowland	32	143	11	78	135
Hink	12	22	194	145	136
Drohan	143	246	62	213	236
Caulfield	53	231	219	72	207
Gonzalez	101	16	34	179	176
Byers	47	221	131	48	79
Ivey	53	193	35	22	109
Conroy	20	104	160	13	128
Kishok	1	99	73	240	19
Steel	102	35	245	160	241
Nesmith	39	124	174	193	14
Samuels	53	52	252	43	66
Henneberger	24	127	121	210	147
Mutschelknaus	46	247	223	242	37
Kim	247	151	67	126	91
Thomas	251	140	68	147	128
Ancell	25	135	93	2	15
Arroll	235	127	137	226	91
Leonard	95	195	39	84	219
Wente	9	83	115	96	23
Schmitt	141	222	18	99	206
Weslar	36	166	180	18	6
Roddy	167	90	226	41	80
Sears	212	10	36	241	238
Hershey	112	82	170	191	70
Welborn	210	235	7	161	23
Marini	58	148	96	163	246
Gist	146	183	141	130	243
Dryburgh	54	249	1	104	41
Samelko	41	86	64	51	104
Saludo	253	96	180	141	182
Williams	6	86	72	74	202
Cook	106	60	20	173	250
Pratt	184	249	217	252	47
Clinkscale	14	77	69	220	79
Lyons	248	77	129	46	103
Harrison	134	36	38	133	64
Vaitas	242	234	208	206	144
Peterson	176	22	46	1	192
Camporini	135	138	158	111	110
Parnell	155	232	58	57	162
Coon	40	11	11	110	251
Symons	177	193	41	232	43
Murphy	231	103	147	50	253
Paula	178	184	166	75	58
Lukasavich	193	137	111	100	97
Jenkins	85	250	224	227	242
Eagan	167	82	88	25	48
Hahn	29	207	231	204	91
Gary	88	89	185	78	33
...

Hashmi	223	150	74	147	96
Aschbrenner	116	43	57	26	47
Stevens	13	172	80	219	30
Pepper	161	10	32	21	8
Belfield	176	15	191	128	163
Kulha	196	215	209	170	23
Capizzi	161	80	82	169	72
iddents	245	152	108	89	224
R'ichaud	223	183	205	200	35
S. nford	229	51	215	90	25
Thompson	131	44	0	147	156
O'toole	152	177	107	92	191
Brown	61	222	180	21	56
Beattie	165	180	62	177	30
Fitzpatrick	88	207	183	176	179
Swiadek	30	44	36	47	4
Brandt	56	41	89	240	231
Forrestel	189	206	62	241	252
Boyce	118	188	208	175	36
Black	97	221	187	74	137
Leger	67	43	215	160	241
Baker	149	155	199	178	73
Darrow	241	245	245	138	159
Hatch	201	94	172	117	226
Hyde	76	36	254	159	160
Baker	149	155	199	178	73
Sasaya	37	4	10	245	48
Brown	61	222	180	21	56
Fetty	133	140	160	237	16
Falcon	90	221	245	250	11
Williams	6	86	72	74	202
Buffalow	149	222	82	21	32
oodson	108	145	99	155	253
Jellis	42	48	4	207	112
F say	19	97	39	36	45
Dunn	231	73	189	108	143
Naill	191	76	176	77	100
Spiegel	179	11	211	226	169
Lohr	157	167	131	86	65
Lukash	87	218	208	149	86
Yoo	8	163	169	225	145
Bartal	239	100	0	235	12
Redmond	150	117	29	44	7
Ganey	60	164	76	185	182
Allen	95	128	124	51	184
Gonzalez	101	16	34	179	176
Webster	116	90	66	78	178
Bonilla	157	51	69	212	153
Waring	57	16	12	244	232
Harding	121	179	163	52	179
Arnold	112	56	52	241	76
O'rea	40	132	70	49	108
Bliss	197	135	9	196	241
Borg	208	70	32	73	78
Burhop	110	70	14	17	40
Pirsch	189	29	221	170	11
Mussmon	243	98	146	203	26
Kishiyama	99	8	34	161	142
Collisino	192	235	41	222	83
ons	109	97	83	102	27
R m	18	19	245	156	71
Shockley	32	24	50	201	62
Albright	141	141	89	16	199
Cohen	206	25	37	44	237
DuVall	38	46	242	13	182
William	227	20	40	17	102

Seckinger	37	195	243	50	113
Tarlton	110	114	152	157	146
Argerbright	1	211	237	56	169
Castro	149	8	234	161	14
Crosby	126	214	234	87	182
Mansaray	206	106	164	169	254
Hampe	89	63	213	246	205
iglio	3	1	199	76	25
Abbouin	110	187	191	192	171
linton	250	247	5	208	245
McCullough	16	11	241	209	55
Taylor	230	107	79	68	253
Noble	5	68	68	203	152
Wentzell	224	213	93	141	73
Luskey	160	79	167	168	169
Murphy	231	103	147	50	253
Lyon	112	60	248	117	14
Fain	215	4	20	167	26
Hall	126	55	55	140	111
Montano	208	238	28	25	226
Jin	89	209	3	28	63
Sejnoha	233	240	16	65	8
Hendershot	88	178	104	109	170
Carder	52	235	25	142	125
Kidd	37	38	226	239	224
Kid	44	36	234	35	204
Kidd	37	38	226	239	224
Khanna	105	71	71	58	61
Kendrick	229	149	71	132	197
Kendrick	229	149	71	132	197
Kendall	52	35	227	56	167
Karami	159	123	85	76	65
aplowitz	90	225	81	186	31
apalan	65	88	102	131	90
ansen	224	57	15	210	191
ansen	224	57	15	210	191
Jensen	224	57	15	210	191
Jensen	224	57	15	210	191
Jensen	224	57	15	210	191
Jensen	224	57	15	210	191
Jensen	224	57	15	210	191
Jennings	211	62	0	243	240
Jennings	211	62	0	243	240
Jennings	211	62	0	243	240
Jennings	211	62	0	243	240
Jennings	211	62	0	243	240
Hoffman	108	1	237	120	83
Hoffman	108	1	237	120	83
Hoffman	108	1	237	120	83
Hess	54	169	75	2	237
Hess	54	169	75	2	237
Hess	54	169	75	2	237
Harrison	134	36	38	133	64
Harrison	134	36	38	133	64
Harrison	134	36	38	133	64
Harrison	134	36	38	133	64
Harrison	134	36	38	133	64
Hamilton	172	206	60	249	124
amilton	172	206	60	249	124
amilton	172	206	60	249	124
Hilton	172	206	60	249	124
Hamilton	172	206	60	249	124
Hamilton	172	206	60	249	124
Hamilton	172	206	60	249	124
Gould	195	83	145	182	243
Gould	195	83	145	182	243

Gilmore	46	39	25	108	223
Knox	42	190	106	153	80
Knox	42	190	106	153	80
Knox	42	190	106	153	80
Knox	42	190	106	153	80
Knop	1	144	76	49	26
Knop	1	144	76	49	26
Knop	1	144	76	49	26
Rose	165	201	163	68	253
Rose	165	201	163	68	253
Rose	165	201	163	68	253
Rose	165	201	163	68	253
Rose	165	201	163	68	253
Rose	165	201	163	68	253
Slay	121	181	189	50	145
Slay	121	181	189	50	145
Ford	68	123	155	226	77
Ford	68	123	155	226	77
Ford	68	123	155	226	77
Ford	68	123	155	226	77
Ford	68	123	155	226	77
Ford	68	123	155	226	77
Ford	68	123	155	226	77
Ford	68	123	155	226	77
Ford	68	123	155	226	77
Ford	68	123	155	226	77
Ford	68	123	155	226	77
Ford	68	123	155	226	77
Beall	11	60	168	225	122
Beall	11	60	168	225	122
Beall	11	60	168	225	122
Beall	11	60	168	225	122
Beall	11	60	168	225	122
Beall	11	60	168	225	122
Beall	11	60	168	225	122
Beall	11	60	168	225	122
Beall	11	60	168	225	122
Beall	11	60	168	225	122
Beall	11	60	168	225	122
Beall	11	60	168	225	122
Beall	11	60	168	225	122
Cocke	18	173	173	60	71
Cocke	18	173	173	60	71
Cocke	18	173	173	60	71
Cocke	18	173	173	60	71
Cocke	18	173	173	60	71
Cocke	18	173	173	60	71
Gibbs	242	93	129	168	213
Gibbs	242	93	129	168	213
Gibbs	242	93	129	168	213
Gibbs	242	93	129	168	213
Gibbs	242	93	129	168	213
Gibbs	242	93	129	168	213
Gibbs	242	93	129	168	213
Gibbs	242	93	129	168	213
Gibbs	242	93	129	168	213
Gibbs	242	93	129	168	213
Gibbs	242	93	129	168	213
Kasse	2	93	141	86	163
Kasse	2	93	141	86	163
Kasse	2	93	141	86	163
Winer	165	125	143	169	105
Winer	165	125	143	169	105
Winer	165	125	143	169	105
Wine	198	145	153	155	115
Veach	192	137	93	213	55
Veach	192	137	93	213	55

Coburn	81	247	233	26	83
Coburn	81	247	233	26	83
Coburn	81	247	233	26	83
Tyler	164	14	46	13	208
Tyler	164	14	46	13	208
Tyler	164	14	46	13	208
Slater	104	81	159	28	105
Slater	104	81	159	28	105
Slater	104	81	159	28	105
Slater	104	81	159	28	105
Slater	104	81	159	28	105
Slater	104	81	159	28	105
Slater	104	81	159	28	105
Murray	215	40	12	135	96
Murray	215	40	12	135	96
Murray	215	40	12	135	96
Murray	215	40	12	135	96
Murray	215	40	12	135	96
Murray	215	40	12	135	96
Murray	215	40	12	135	96
Murray	215	40	12	135	96
Murray	215	40	12	135	96
Murray	215	40	12	135	96
Cooper	28	34	56	21	208
Cooper	28	34	56	21	208
Cooper	28	34	56	21	208
Cooper	28	34	56	21	208
Cooper	28	34	56	21	208
Cooper	28	34	56	21	208
Little	121	124	102	141	68
Little	121	124	102	141	68
Little	121	124	102	141	68
Little	121	124	102	141	68
Kiernan	84	84	136	83	120
Kiernan	84	84	136	83	120
Kiernan	84	84	136	83	120
Kiernan	84	84	136	83	120
Kiernan	84	84	136	83	120
Browning	55	180	62	83	210
Browning	55	180	62	83	210
Browning	55	180	62	83	210
Browning	55	180	62	83	210
Browning	55	180	62	83	210
Browning	55	180	62	83	210
Browning	55	180	62	83	210
Browning	55	180	62	83	210
Browning	55	180	62	83	210
Browning	55	180	62	83	210
Browning	55	180	62	83	210
Browning	55	180	62	83	210
Browning	55	180	62	83	210
Browning	55	180	62	83	210
Browning	55	180	62	83	210
Kapur	249	171	121	106	101
Kapur	249	171	121	106	101
Kapur	249	171	121	106	101
Kapur	249	171	121	106	101
Kapur	249	171	121	106	101
Kapur	249	171	121	106	101
Razer	50	122	118	111	126
Razer	50	122	118	111	126
Ferry	28	140	160	237	16
Ferry	28	140	160	237	16
Ferry	28	140	160	237	16

Rosso	196	46	66	191	158
Close	239	80	66	171	120
Close	239	80	66	171	120
Close	239	80	66	171	120
Close	239	80	66	171	120
Close	239	80	66	171	120
Coons	160	122	114	53	146
ns	160	122	114	53	146
Coons	160	122	114	53	146
Coons	160	122	114	53	146
Coons	160	122	114	53	146
Fahey	97	251	239	230	43
Fahey	97	251	239	230	43
Fahey	97	251	239	230	43
Fahey	97	251	239	230	43
Fahey	97	251	239	230	43
Fahey	97	251	239	230	43
Irvin	224	86	120	135	90
Irvin	224	86	120	135	90
Inman	210	35	55	70	83
Inman	210	35	55	70	83
Inman	210	35	55	70	83
Inman	210	35	55	70	83
Inman	210	35	55	70	83
Inman	210	35	55	70	83
Inman	210	35	55	70	83
Inman	210	35	55	70	83
Inman	210	35	55	70	83
Inman	210	35	55	70	83
Inman	210	35	55	70	83
Inman	210	35	55	70	83
Inman	210	35	55	70	83
Lucas	75	18	62	39	212
Lucas	75	18	62	39	212
Lucas	75	18	62	39	212
Lucas	75	18	62	39	212
Lucas	75	18	62	39	212
Lucas	75	18	62	39	212
Lucas	75	18	62	39	212
Lucas	75	18	62	39	212
Lucas	75	18	62	39	212
Lucas	75	18	62	39	212
Lucas	75	18	62	39	212
Lucas	75	18	62	39	212
McKee	168	51	57	51	117
McKee	168	51	57	51	117
McKee	168	51	57	51	117
McKee	168	51	57	51	117
McKee	168	51	57	51	117
Stamm	195	16	194	213	30
Stamm	195	16	194	213	30
Scott	99	245	11	224	7
Scott	99	245	11	224	7
Scott	99	245	11	224	7
Scott	99	245	11	224	7
Scott	99	245	11	224	7
Scott	99	245	11	224	7
Romas	221	230	126	91	196
Roman	137	235	97	162	133
Roman	137	235	97	162	133
Roman	137	235	97	162	133
Roman	137	235	97	162	133
Romas	221	230	126	91	196
Roman	137	235	97	162	133
Roman	137	235	97	162	133
Roman	137	235	97	162	133
Lance	168	209	5	92	245
Lance	168	209	5	92	245

Lance	168	209	5	92	245
Lance	168	209	5	92	245
Lance	168	209	5	92	245
Lance	168	209	5	92	245
Noland	167	236	30	79	198
Ross	82	213	95	120	49
Wessels	26	212	222	174	158
Wessels	56	24	54	249	166
Wessels	133	226	44	239	26
Doherty	160	113	149	130	1
Hall	126	55	55	140	111
Keefe	196	228	4	171	50
Stultz	10	76	6	3	106
Robinson	240	242	96	183	238
Pannell	204	120	74	169	144
Mattson	34	242	18	13	42
Hayward	112	178	96	231	66
Burton	94	128	20	247	134
Hartley	155	19	219	62	95
Patton	25	146	180	171	178
Monaghan	5	123	189	44	83
Lynn	53	187	131	16	137
Kann	4	48	8	49	6
Fox	60	111	101	56	141
Thomas	251	140	68	147	128
Shomo	204	60	32	101	184
Mertins	78	116	122	107	250
Buschmeyer	18	33	145	240	63
Coonan	190	132	148	37	244
Kilborn	180	197	9	64	109
Ziern	194	168	86	128	86
Verdery	178	25	3	21	83
Gnetman	199	204	230	35	0
Gnetman	3	20	228	154	170
Buscovich	122	168	192	221	64
Hartshorn	244	175	143	122	187
MacNamara	232	247	37	219	119
Wessinger	123	227	245	29	207
Singletary	119	180	168	11	226
McKowen	240	206	202	28	10
Wertman	161	48	200	204	18
Shoon	26	241	231	86	43
Noel	126	12	12	175	64
Gernald	148	5	33	138	41
Cooney	108	233	51	88	63
Babei	246	145	243	178	99
Graham	168	16	234	133	192
Johnson	192	189	185	48	163
Freeman	181	188	176	51	122
Quintano	183	237	45	28	47
Tallia	19	37	221	162	7
Wessus	135	218	52	176	54
Smith	126	51	63	120	95
Reeder	105	173	217	38	13
Merwald	24	80	72	27	194
Isadore	200	155	105	210	189
Beams	49	252	112	43	168
Carnock	195	163	161	34	247
Carnock	230	107	79	68	253
Carnock	161	169	105	130	221
Knepper	20	83	129	72	19
Manto	192	105	103	124	101
Stokes	58	79	163	166	115
Ballou	251	9	145	164	181
Chrisinger	63	96	190	99	40
Chrisinger	220	26	144	81	186

Kuan	255	239	207	118	235
Vouvalis	213	41	35	173	85
Rawson	10	60	180	69	10
Genovese	19	16	24	131	80
Brown	61	222	180	21	56
Hale	101	154	124	119	2
Linders	237	95	169	22	251
Chak	43	242	250	55	164
Newton	5	12	254	135	68
Luebeck	246	147	143	144	107
Hurwit	125	147	107	130	45
Gaylord	67	96	98	217	106
Balthrop	248	60	148	171	36
Dorosin	77	238	6	117	208
Loucas	176	233	35	224	123
Noshirvani	146	117	117	138	43
Woodall	182	148	152	76	52
Walthall	89	203	29	61	205
Potter	20	156	184	181	2
Infante	68	95	111	142	221
Brownlee	84	30	122	137	240
Gernando	233	66	148	115	102
Hudnall	104	234	248	7	174
Mallgraf	19	162	112	47	76
Yolton	205	245	13	245	87
Shurts	68	89	67	82	147
Phongsavan	172	89	111	148	173
Mertins	78	116	122	107	250
Lawhorn	161	63	17	48	19
Christen	250	112	72	159	214
Finkenbinder	20	255	209	130	59
Hollomon	122	242	20	145	116
Parrado	204	31	35	44	145
na	253	67	229	194	85
Yoegel	239	107	133	105	245
Weisberger	24	39	49	213	233
McLaughlin	91	186	92	158	96
Knater	57	39	241	236	183
Anderton	32	3	21	130	47
Dowdle	112	169	79	84	249
Larco	159	215	237	108	205
Musser	179	213	219	106	153
Weschler	158	187	95	79	47
Naeher	60	193	3	170	163
Masoller	39	15	231	250	189
Chatelain	120	45	233	106	109
Jobber	16	50	248	27	198
Nyborg	38	121	91	128	141
Dorsett	158	225	235	64	51
Grasse	204	187	129	120	229
Miller	76	147	105	184	157
Rawson	10	60	180	69	10
William	237	39	49	17	163
Mussen	255	69	171	250	171
Mervis	62	160	100	253	146
Lose	20	211	223	186	139
Lazzari	236	61	59	68	51
Kanoza	6	98	212	209	222
Witz	222	123	17	108	53
usky	78	251	45	202	219
Demory	42	174	142	219	128
Cook	106	60	20	173	250
Guernsey	164	4	254	187	130
Flester	234	217	53	4	73
Ali	196	180	66	93	60

Fletcher	193	43	219	140	139
LeBlanc	207	179	31	175	197
Quinn	30	15	197	24	129
West	196	147	153	127	213
Spencer	99	74	160	59	38
Ragan	236	161	219	206	181
Gawsett	93	49	227	60	203
ane	10	45	75	36	247
Busch	189	243	155	2	255
Holtzman	58	13	113	162	197
McGee	89	57	35	47	41
Phipps	243	246	234	169	166
Mertens	146	252	236	59	158
Hopkins	118	72	96	129	242
Gonet	190	201	25	236	121
Cox	202	118	144	47	138
Bean	252	64	206	67	82
Culver	207	215	229	254	7
Hill	254	33	221	82	137
Rodgers	202	212	66	105	200
Gomez	114	200	140	153	180
Dowd	40	4	4	175	148
Borders	25	71	61	88	183
Northrop	156	224	38	215	4
Wolff	172	94	186	50	88
Tracy	144	87	189	46	45
Sarahan	118	238	8	141	22
Mitchell	234	22	228	115	10
Loftus	226	189	135	6	123
Beard	8	210	182	31	76
Falcone	69	176	112	157	174
Irvin	224	86	120	135	90
Bugbart	81	195	183	28	155
el	115	38	248	187	218
Mangum	3	153	137	54	145
Goodwin	215	69	155	176	229
Askins	137	67	147	2	245
Cummings	71	207	63	52	149
Gunn	11	106	74	33	184
Lewis	77	218	220	103	184
Rinkerman	134	67	227	196	85
Paolozzi	9	48	18	101	60
Jameson	108	145	169	168	1
Glaser	71	10	54	191	68
Carlin	155	49	57	30	207
Fretz	52	35	89	200	53
McBride	228	52	148	42	254
Williamson	111	209	51	47	77
Stull	120	64	154	217	252
Roberts	207	135	241	56	25
Irwin	254	3	1	180	97
McGrath	27	72	118	60	46
Thornton	78	66	98	111	230
Shoot	193	103	141	222	37
Peeples	127	238	194	11	170
Meruvia	200	129	69	170	25
Holzman	208	231	125	136	227
Fernandez	204	85	33	160	189
Keelan	28	225	37	104	67
Nelson	250	1	19	86	1
Thompson	131	44	0	147	156
Ruffner	240	112	22	173	204
Haynes	73	216	16	67	234
McMillan	9	109	173	77	121
Snider	92	19	217	26	101
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Bush	215	244	186	51	72
Cooper	28	34	56	21	208
Lewis	77	218	220	103	184
Moran	116	111	125	100	89
Stumbo	63	66	110	235	48
Puckly	69	70	188	95	224
Campbell	242	196	62	59	142
ler	146	76	170	107	174
Kepler	133	202	228	117	142
Ravera	233	237	165	244	71
Hudgins	9	126	148	81	34
Diamonstein	177	165	169	32	147
Brooks	101	116	194	103	162
Fernstrom	191	174	178	57	2
Verdin	245	142	88	132	100
Sokkappa	178	242	42	209	176
Minjack	177	181	171	168	189
Hudson	8	147	101	114	79
Anderson	62	152	96	243	96
Anderson	62	152	96	243	96
Anderson	62	152	96	243	96
Anderson	62	152	96	243	96
Anderson	62	152	96	243	96
Anderson	62	152	96	243	96
Anderson	62	152	96	243	96
Anderson	62	152	96	243	96
Anderson	62	152	96	243	96
Anderson	62	152	96	243	96
Anderson	62	152	96	243	96
Anderson	62	152	96	243	96
Anderson	62	152	96	243	96
Anderson	62	152	96	243	96
Anderson	62	152	96	243	96
Shin	55	20	244	97	234
hin	55	20	244	97	234

Hash_Source_And_Target called at Stack Level : 1

--- Source Bucket No. 1 ---
 Simmons Alfred J

--- Target Bucket No. 1 ---
 Simmons Mark C

--- Source Bucket No. 14 ---
 Gates Allan W

--- Target Bucket No. 14 ---
 Gates Culver V
 Gates Jesse
 Gates Kirby
 Gates Lawrence M
 Gates Max
 Gates C V

--- Source Bucket No. 20 ---
 Potter Andrew
 Place Alain

--- Target Bucket No. 20 ---
 Potter Cynthia
 Potter Randal

--- Source Bucket No. 27 ---
 Powell Anthony

--- Target Bucket No. 27 ---

--- Source Bucket No. 28 ---

Cooper Adren
Cooper Aileen
Cooper Albert
Cooper Alfred D
Cooper Alla
Cooper Alvin
Cooper Arthur I

--- Target Bucket No. 28 ---

Cooper Bruce Michael
Cooper Benjamin
Cooper Bradford
Cooper Brooks
Cooper Carleton
Cooper Charles E
Cooper Christine
Cooper Thomas E
Cooper Timothy
Cooper Tommye
Cooper William H
Cooper Williams

--- Source Bucket No. 38 ---

Azar Abdul Hakim

--- Target Bucket No. 38 ---

Longmire David W

--- Source Bucket No. 39 ---

Greber Alan

Target Bucket No. 39 ---

Speers Lisa N

--- Source Bucket No. 62 ---

Anderson Adrian B
Anderson Alan S
Anderson Alden P
Anderson Anders
Pieruccini Alfred Lt Col

--- Target Bucket No. 62 ---

Anderson J
Anderson J A
Anderson J C
Anderson J D
Anderson J H
Anderson J I
Anderson J J
Anderson J K
Anderson J L
Anderson J M
Anderson J R
Anderson J T
Anderson J W
Anderson Rob L

Source Bucket No. 68 ---

Ford Andrew
Ford Anna Mae

--- Target Bucket No. 68 ---

Ford Barry
Ford

Ford	Bruce
Ford	Calvin R
Ford	Caroll
Ford	Clyde
Ford	Connie
Ford	Declan
Ford	Dwight D
rd	Gene
rd	Henry P
Serra	Miguel
Ford	S L

--- Source Bucket No. 85 ---

Kaye	Arthur
Norton	Arthur J

--- Target Bucket No. 85 ---

Kaye	Merelyn S
Kaye	Zachary A
Norton	L C

--- Source Bucket No. 86 ---

Morris	Anthony
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--- Target Bucket No. 86 ---

Morris	Barry
Morris	Debbie
Morris	Donna
Morris	Jeter
Morris	Mollie
Morris	Ronald W
Morris	James A

--- Source Bucket No. 88 ---

Brewington	Ann P
------------	-------

--- Target Bucket No. 88 ---

veach	Gidwill
-------	---------

--- Source Bucket No. 92 ---

Snider	Adrienne
--------	----------

--- Target Bucket No. 92 ---

Snider	Giovanni
--------	----------

--- Source Bucket No. 93 ---

Jones	Aubrey B III
-------	--------------

--- Target Bucket No. 93 ---

Jones	S L
Jones	Geor

--- Source Bucket No. 95 ---

Kallen	Arthur D
Coleman	Albert
McLellan	A E
Coleman	Alessa

--- Target Bucket No. 95 ---

leman	Dillon
-------	--------

--- Source Bucket No. 109 ---

Hiles	Andrew
Evans	A Lee
Evans	Alan
Evans	Albert

Kemp Anne Marie

--- Target Bucket No. 109 ---

Evans	David L
Evans	Dennis
Evans	Donald
Evans	Dorothy
Evans	Doug
Evans	Dwight
Evans	Eddie
Evans	Eliot D
Evans	Elizabeth D
Evans	Frank
Evans	Franklin N
Evans	Gordon
Evans	Gaynelle
Evans	Thomas E III

--- Source Bucket No. 121 ---
Alonso Adriana

--- Target Bucket No. 121 ---
Alonso Elena T

--- Source Bucket No. 122 ---
Crawford Andrews B Maj

--- Target Bucket No. 122 ---

Crawford	Cathrine
Crawford	Claudia C
Crawford	Douglas P
Crawford	Pauline
Crawford	Steven
Crawford	Thelma M
Crawford	Richard I Col

--- Source Bucket No. 126 ---

Smith	Alan
Hall	Anne Schleiger
Pome	A

--- Target Bucket No. 126 ---

Smith	Marian
Hall	Patrick
Smith	Mary
Smith	Chip
Smith	Caroline
Smith	Chester H
Smith	Christine
Smith	Dana
Smith	Darrell W
Smith	Jefferson S
Smith	Kevin R
Smith	Mark E
Smith	Merrill L
Smith	Navarro
Smith	Theodore H
Smith	Wm Lewis
Smith	Robert A
Smith	R E
Smith	Samuel
Smith	David S Jr
Smith	Melinda K
Smith	Gary R
Smith	Herbert E Capt

Smith Robin E
Smith Sylvester

--- Source Bucket No. 129 ---
Russell Alberta M

--- Target Bucket No. 129 ---
yak Robert

--- Source Bucket No. 131 ---
Thompson A

--- Target Bucket No. 131 ---
Thompson John F
Thompson John H
Thompson William E
Thompson Blair A

--- Source Bucket No. 137 ---
Zumstein Albert A

--- Target Bucket No. 137 ---
Erianne Michael S

--- Source Bucket No. 165 ---
Krause Araine

--- Target Bucket No. 165 ---
Krause Grant
Krause Jeffrey
Krause Walter P

--- Source Bucket No. 175 ---
mas A T

--- Target Bucket No. 175 ---
Chankeris C

--- Source Bucket No. 177 ---
Dorsey Ann
Dorsey Anne

--- Target Bucket No. 177 ---
Dorsey Barbara
Dorsey Bonnie
Dorsey Bryan
Dorsey Daniel K
Dorsey Deboragh
Dorsey Elizabeth M
Dorsey Elsie
Dorsey George L
Dorsey Harry Philip
Dorsey Jeff L
Dorsey John
Dorsey Katheleen M

--- Source Bucket No. 179 ---
Dunbar Annie

Target Bucket No. 179 ---
Dunbar Bradley
Dunbar Frederick

--- Source Bucket No. 183 ---
Lazarus Allan R

Herbert Arthur Carrier

--- Target Bucket No. 183 ---

Herbert Charrick L
Herbert Clayton W
Herbert Douglas C
Herbert Isabel
Herbert John
Herbert Jos A
Herbert Jule Jr
Herbert Lennell
Herbert Walter C Jr

--- Source Bucket No. 185 ---

Pulliam Alice L
Kaplan Abraham O

--- Target Bucket No. 185 ---

Kaplan Maynard H

--- Source Bucket No. 190 ---

Horton Adona I
Chamberlain Alexander Scott

--- Target Bucket No. 190 ---

Chamberlain Patricia

--- Source Bucket No. 192 ---

Johnson Allen O

--- Target Bucket No. 192 ---

Johnson Winston E
Johnson Byron
Johnson Carrie
Johnson Clifford P
Johnson Darrell
Johnson Dixie L
Johnson Edgar M
Johnson Emery
Johnson Greg
Johnson Howard
Johnson George S
Johnson Moddie
Johnson Claud H
Johnson P

--- Source Bucket No. 196 ---

Chrisman Amanda M
Ali Ashraf
Imler A B

--- Target Bucket No. 196 ---

Ali Mohammad

--- Source Bucket No. 198 ---

Briggs Albert
Wyman Alvin E

--- Target Bucket No. 198 ---

Briggs Duncan
Briggs Gary G
Briggs Marcus
Briggs Winston D
Briggs Winston D

Source Bucket No. 200

Kemper Anthony J
Stidham Amu

--- Target Bucket No. 202 ---
Kemper Beryl
Kemper Sandra

-- Source Bucket No. 205 ---
1 ry Alex

--- Target Bucket No. 205 ---
Terry Burdie
Terry Noel

--- Source Bucket No. 208 ---
Francke Amiel

--- Target Bucket No. 208 ---
Burns John J
Burns Dennie G
Burns D J

--- Source Bucket No. 229 ---
Kendrick Anna Magaret

--- Target Bucket No. 229 ---
Kendrick Don
Kendrick Mary Parker

--- Source Bucket No. 231 ---
Carriker A Wendell

--- Target Bucket No. 231 ---
monds Robert H

--- Source Bucket No. 236 ---
Hurtado Alfredo
Burghal Abir
Burke A
Vaxmonsky Albert L

--- Target Bucket No. 236 ---
Burke Julia S
Burke Kathlenn
Burke Miriam V
Burke R S
Burke Carl J

--- Source Bucket No. 243 ---
Adel Amanudin

--- Target Bucket No. 243 ---
DerBogosian D

--- Source Bucket No. 249 ---
Foreman Amy

--- Target Bucket No. 249 ---
Kapur Tom E
Kapur Truman
Kapur Vernice
Kapur Wade L
Kapur Wallace W
Kapur William R
Foreman Carter

Foreman Seth
Foreman Tim J

--- Source Bucket No. 252 ---
Bean A

--- Target Bucket No. 252 ---
can Harold G
d n Cheri

Only_One_Bit_Set? is false with an address : 1 and the next address : 14

Assign_Source_And_T ==> Address Number : 1 Stack Number : 1

Pushed, Stack Pointer is 2 from 1
Simmons 999 141 147 15 24

----- BIT_ARRAY at Stack Level : 2 -----
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 010000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000100
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
000000000 000001000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
000000000 000000000 000010000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

Simmons 999 141 147 15 24

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 141 ---
Simmons Alfred J

--- Target Bucket No. 141 ---
Simmons Mark C

Only_One_Bit_Set? is true with an address : 141 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 141

Simmons Alfred J Simmons Mark C

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 14 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Gates 999 102 241 29 216

----- BIT_ARRAY at Stack Level : 2 -----

00000000 00000000 00000000 00000000 00000000
00000000 00000000 00000000 00000000 00000000
0010000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0100000000
000000

----- BIT_ARRAY at Stack Level : 4 -----

0000000000 0000000000 0000000001 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000001000 0000000000 0000000000 0000000000
000000

Gates 999 102 241 29 216
Gates 999 102 241 29 216
Gates 999 102 241 29 216
Gates 999 102 241 29 216
Gates 999 102 241 29 216
Gates 999 102 241 29 216

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 102 ---

Gates Allan W

--- Target Bucket No. 102 ---

Gates C V
Gates Max
Gates Lawrence M
Gates Kirby
Gates Jesse
Gates Culver V

y_One_Bit_Set? is true with an address : 102 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 102

Gates Allan W Gates C V
Gates Allan W Gates Max
Gates Allan W Gates Lawrence M
Gates Allan W Gates Kirby

Gates Allan W Gates Jesse
Gates Allan W Gates Culver V

Popped, Stack Pointer is 1 from 2

assign_Source_And_T ==> Address Number : 20 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Potter 999 78 220 90 129
Place 999 223 82 2 247

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000010 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0001000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0010000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 1000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0010000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 1000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000001 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000100
000000

Potter 999 78 220 90 129
Potter 999 78 220 90 129

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 78 ---
Potter Andrew

--- Target Bucket No. 78 ---
Potter Randal
Potter Cynthia

Only_One_Bit_Set? is false with an address : 78 and the next address : 999

ign_Source_And_T ==> Address Number : 78 Stack Number : 2

Pushed, Stack Pointer is 3 from 2

Potter 999 999 238 173 64

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000010 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
J)000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0001000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000100000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

Potter	999	999	238	173	64
Potter	999	999	238	173	64

Hash_Source_And_Target called at Stack Level : 3

--- Source Bucket No. 238 ---
Potter Andrew

--- Target Bucket No. 238 ---
Potter Cynthia
Potter Randal

Only_One_Bit_Set? is true with an address : 238 and the next address : 999
Merge Relations At Stack Level 3 with Bucket Number 238

Potter	Andrew	Potter	Cynthia
Potter	Andrew	Potter	Randal

Popped, Stack Pointer is 2 from 3

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 27 Stack Number : 1

Pushed, Stack Pointer is 2 from 1
Powell 999 51 81 213 162

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0100000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0100000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0001000000 0000000000 0000000000 0000000000
00000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0010000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

Powell 999 51 81 213 162

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 51 ---
Powell Anthony

--- Target Bucket No. 51 ---
Powell Thomas Shane

Only_One_Bit_Set? is true with an address : 51 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 51

Powell Anthony Powell Thomas Shane

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 28 Stack Number : 1

Pushed, Stack Pointer is 2 from 1
Cooper 999 145 28 10 232
Cooper 999 145 28 10 232
Cooper 999 145 28 10 232
Cooper 999 145 28 10 232
Cooper 999 145 28 10 232
Cooper 999 145 28 10 232
Cooper 999 145 28 10 232

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000010000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000010 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
00000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 1000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0010000000 0000000000
000000

Cooper	999	145	28	10	232
Cooper	999	145	28	10	232
Cooper	999	145	28	10	232
Cooper	999	145	28	10	232
Cooper	999	145	28	10	232
Cooper	999	145	28	10	232
Cooper	999	145	28	10	232
Cooper	999	145	28	10	232
Cooper	999	145	28	10	232
Cooper	999	145	28	10	232
Cooper	999	145	28	10	232
Cooper	999	145	28	10	232
Cooper	999	145	28	10	232
Cooper	999	145	28	10	232
Cooper	999	145	28	10	232

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 145 ---

Cooper Arthur I
Cooper Alvin
Cooper Alla
Cooper Alfred D
Cooper Albert
Cooper Aileen
Cooper Adren

--- Target Bucket No. 145 ---

Cooper Williams
Cooper William H
Cooper Tommye
Cooper Timothy
Cooper Thomas E
Cooper Christine
Cooper Charles E
Cooper Carleton
Cooper Brooks
Cooper Bradford
Cooper Benjamin
Cooper Bruce Michael

Only_One_Bit_Set? is true with an address : 145 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 145

Cooper	Arthur I	Cooper	Williams
Cooper	Arthur I	Cooper	William H
Cooper	Arthur I	Cooper	Tommye
Cooper	Arthur I	Cooper	Timothy
Cooper	Arthur I	Cooper	Thomas E
Cooper	Arthur I	Cooper	Christine
Cooper	Arthur I	Cooper	Charles E
Cooper	Arthur I	Cooper	Carleton
Cooper	Arthur I	Cooper	Brooks
Cooper	Arthur I	Cooper	Bradford
Cooper	Arthur I	Cooper	Benjamin
Cooper	Arthur I	Cooper	Bruce Michael

Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper

Alvin
Alvin
Alvin
Alvin
Alvin
Alvin
Alvin
Alvin
Alvin
Alvin
Alvin
Alvin

Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper

Williams
William H
Tommye
Timothy
Thomas E
Christine
Charles E
Carleton
Brooks
Bradford
Benjamin
Bruce Michael

Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper

Alla
Alla
Alla
Alla
Alla
Alla
Alla
Alla
Alla
Alla
Alla
Alla
Alla

Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper

Williams
William H
Tommye
Timothy
Thomas E
Christine
Charles E
Carleton
Brooks
Bradford
Benjamin
Bruce Michael

Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper

Alfred D
Alfred D
Alfred D
Alfred D
Alfred D
Alfred D
Alfred D
Alfred D
Alfred D
Alfred D
Alfred D
Alfred D
Alfred D

Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper

Williams
William H
Tommye
Timothy
Thomas E
Christine
Charles E
Carleton
Brooks
Bradford
Benjamin
Bruce Michael

Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper

Albert
Albert
Albert
Albert
Albert
Albert
Albert
Albert
Albert
Albert
Albert
Albert
Albert

Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper

Williams
William H
Tommye
Timothy
Thomas E
Christine
Charles E
Carleton
Brooks
Bradford
Benjamin
Bruce Michael

Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper

Aileen
Aileen
Aileen
Aileen
Aileen
Aileen
Aileen

Cooper
Cooper
Cooper
Cooper
Cooper
Cooper
Cooper

Williams
William H
Tommye
Timothy
Thomas E
Christine
Charles E

```
Cooper      Aileen      Cooper      Brooks
Cooper      Aileen      Cooper      Bradford
Cooper      Aileen      Cooper      Benjamin
Cooper      Aileen      Cooper      Bruce Michael
```

```
Cooper      Adren       Cooper      Williams
Cooper      Adren       Cooper      William H
Cooper      Adren       Cooper      Tommye
Cooper      Adren       Cooper      Timothy
Cooper      Adren       Cooper      Thomas E
Cooper      Adren       Cooper      Christine
Cooper      Adren       Cooper      Charles E
Cooper      Adren       Cooper      Carleton
Cooper      Adren       Cooper      Brooks
Cooper      Adren       Cooper      Bradford
Cooper      Adren       Cooper      Benjamin
Cooper      Adren       Cooper      Bruce Michael
```

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 38 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Azar 999 84 151 160 184

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000100000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0100000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 1000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000100000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000

Longmire 999 74 205 2 84

Hash_Source_And_Target called at Stack Level : 2

Only_One_Bit_Set? is true with an address : -1 and the next address : 999

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 39 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Greber 999 64 81 208 82

----- BIT_ARRAY at Stack Level : 2 -----

000000000 000000000 000000000 000000000 000000000
000000000 000010000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----

000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 010000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----

000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000001 000000000 000000000 000000000 000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----

000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 001000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

Speers 999 160 79 121 232

Hash_Source_And_Target called at Stack Level : 2

Only_One_Bit_Set? is true with an address : -1 and the next address : 999
There are no keys to be merged in this level.

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 62 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Anderson 999 76 48 121 176
Anderson 999 76 48 121 176
Anderson 999 76 48 121 176
Anderson 999 76 48 121 176
Pieruccini 999 46 184 129 192

----- BIT_ARRAY at Stack Level : 2 -----

0000000 000000000 000000000 000000000 0000001000
000000000 000000000 0000001000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

```

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000010
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000100000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

```

```

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0100000001 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

```

```

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000001000 0000000000 0010000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

```

Anderson	999	76	48	121	176
Anderson	999	76	48	121	176
Anderson	999	76	48	121	176
Anderson	999	76	48	121	176
Anderson	999	76	48	121	176
Anderson	999	76	48	121	176
Anderson	999	76	48	121	176
Anderson	999	76	48	121	176
Anderson	999	76	48	121	176
Anderson	999	76	48	121	176
Anderson	999	76	48	121	176
Anderson	999	76	48	121	176
Anderson	999	76	48	121	176
Anderson	999	76	48	121	176
Anderson	999	76	48	121	176

Hash_Source_And_Target called at Stack Level : 2

```

--- Source Bucket No. 76 ---
Anderson Anders
Anderson Alden P
Anderson Alan S
Anderson Adrian B

```

```

--- Target Bucket No. 76 ---
Anderson Rob L
Anderson J W
Anderson J T
Anderson J R
Anderson J M
Anderson J L
Anderson J K
Anderson J J
Anderson J I
Anderson J H
Anderson J D
Anderson J C
Anderson J A
Anderson J

```

Only_One_Bit_Set? is false with an address : 76 and the next address : 999

Assign Source And Target --> Address Number : 76 Stack Number : 2

Anderson J T
Anderson J W
Anderson Rob L

Only_One_Bit_Set? is true with an address : 24 and the next address : 999
Merge Relations At Stack Level 3 with Bucket Number 24

Anderson	Adrian B	Anderson	J
Anderson	Adrian B	Anderson	J A
Anderson	Adrian B	Anderson	J C
Anderson	Adrian B	Anderson	J D
Anderson	Adrian B	Anderson	J H
Anderson	Adrian B.	Anderson	J I
Anderson	Adrian B	Anderson	J J
Anderson	Adrian B	Anderson	J K
Anderson	Adrian B	Anderson	J L
Anderson	Adrian B	Anderson	J M
Anderson	Adrian B	Anderson	J R
Anderson	Adrian B	Anderson	J T
Anderson	Adrian B	Anderson	J W
Anderson	Adrian B	Anderson	Rob L

Anderson	Alan S	Anderson	J
Anderson	Alan S	Anderson	J A
Anderson	Alan S	Anderson	J C
Anderson	Alan S	Anderson	J D
Anderson	Alan S	Anderson	J H
Anderson	Alan S	Anderson	J I
Anderson	Alan S	Anderson	J J
Anderson	Alan S	Anderson	J K
Anderson	Alan S	Anderson	J L
Anderson	Alan S	Anderson	J M
Anderson	Alan S	Anderson	J R
Anderson	Alan S	Anderson	J T
Anderson	Alan S	Anderson	J W
Anderson	Alan S	Anderson	Rob L

Anderson	Alden P	Anderson	J
Anderson	Alden P	Anderson	J A
Anderson	Alden P	Anderson	J C
Anderson	Alden P	Anderson	J D
Anderson	Alden P	Anderson	J H
Anderson	Alden P	Anderson	J I
Anderson	Alden P	Anderson	J J
Anderson	Alden P	Anderson	J K
Anderson	Alden P	Anderson	J L
Anderson	Alden P	Anderson	J M
Anderson	Alden P	Anderson	J R
Anderson	Alden P	Anderson	J T
Anderson	Alden P	Anderson	J W
Anderson	Alden P	Anderson	Rob L

Anderson	Anders	Anderson	J
Anderson	Anders	Anderson	J A
Anderson	Anders	Anderson	J C
Anderson	Anders	Anderson	J D
Anderson	Anders	Anderson	J H
Anderson	Anders	Anderson	J I
Anderson	Anders	Anderson	J J
Anderson	Anders	Anderson	J K
Anderson	Anders	Anderson	J L
Anderson	Anders	Anderson	J M

Anderson	Anders	Anderson	J T
Anderson	Anders	Anderson	J W
Anderson	Anders	Anderson	Rob L

Popped, Stack Pointer is 2 from 3

Poped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 68 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Ford	999	61	77	113	38
Ford	999	61	77	113	38

----- BIT_ARRAY at Stack Level : 2 -----

```
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0100000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

----- BIT_ARRAY at Stack Level : 3 -----

```
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000100 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

----- BIT_ARRAY at Stack Level : 4 -----

```
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0001000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

----- BIT_ARRAY at Stack Level : 5 -----

```
0000000000 0000000000 0000000000 0000000010 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

Ford	999	61	77	113	38
Ford	999	61	77	113	38
Ford	999	61	77	113	38
Ford	999	61	77	113	38
Ford	999	61	77	113	38
Ford	999	61	77	113	38
Ford	999	61	77	113	38
Ford	999	61	77	113	38
Ford	999	61	77	113	38
Ford	999	61	77	113	38
Ford	999	61	77	113	38
ra	999	203	165	204	78
Ford	999	61	77	113	38

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 61 ---

Ford Andrew

--- Target Bucket No. 61 ---

Ford	S L
Ford	Henry P
Ford	Gene
Ford	Dwight D
ord	Declan
ord	Connie
Ford	Clyde
Ford	Caroll
Ford	Calvin R
Ford	Bruce
Ford	Brendan
Ford	Barry

Only_One_Bit_Set? is true with an address : 61 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 61

Ford	Anna Mae	Ford	S L
Ford	Anna Mae	Ford	Henry P
Ford	Anna Mae	Ford	Gene
Ford	Anna Mae	Ford	Dwight D
Ford	Anna Mae	Ford	Declan
Ford	Anna Mae	Ford	Connie
Ford	Anna Mae	Ford	Clyde
Ford	Anna Mae	Ford	Caroll
Ford	Anna Mae	Ford	Calvin R
Ford	Anna Mae	Ford	Bruce
Ford	Anna Mae	Ford	Brendan
Ford	Anna Mae	Ford	Barry

ord	Andrew	Ford	S L
ord	Andrew	Ford	Henry P
Ford	Andrew	Ford	Gene
Ford	Andrew	Ford	Dwight D
Ford	Andrew	Ford	Declan
Ford	Andrew	Ford	Connie
Ford	Andrew	Ford	Clyde
Ford	Andrew	Ford	Caroll
Ford	Andrew	Ford	Calvin R
Ford	Andrew	Ford	Bruce
Ford	Andrew	Ford	Brendan
Ford	Andrew	Ford	Barry

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 85 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Kaye	999	233	152	131	225
Norton	999	16	19	20	203

```

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000001000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0001000000 0000000000
0000000000

```

```

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000

```

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0010000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
^0000000000 0000000000 1000000000 0000000000 0000000000
J 00000000 0000000000 0000000000 0000000000 0000000000
00J0000000 0000000000 0000000000 0100000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0001000000 0000000000 0000010000 0000000000 0000000000
000000

Kaye	999	233	152	131	225
Kaye	999	233	152	131	225
Norton	999	16	19	20	203

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 16 ---
Norton Arthur J

--- Target Bucket No. 16 ---
Norton L C

· Source Bucket No. 233 ---
Kaye Arthur

--- Target Bucket No. 233 ---
Kaye Zachary A
Kaye Merelyn S

Only_One_Bit_Set? is false with an address : 16 and the next address : 233

Assign_Source_And_T ==> Address Number : 16 Stack Number : 2

Pushed, Stack Pointer is 3 from 2
Norton 999 999 137 10 229

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000100 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 1000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
^00000000 0000000000 0000000000 0000000000 0000000000
00J0000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000001 0000000000 0000000000
000000

Norton 999 999 137 10 229

Hash_Source_And_Target called at Stack Level : 3

--- Source Bucket No. 137 ---

Norton Arthur J

--- Target Bucket No. 137 ---

Norton L C

Only_One_Bit_Set? is true with an address : 137 and the next address : 999
Merge Relations At Stack Level 3 with Bucket Number 137

Norton Arthur J Norton L C

Popped, Stack Pointer is 2 from 3

Assign_Source_And_T ==> Address Number : 233 Stack Number : 2

Pushed, Stack Pointer is 3 from 2

Kaye 999 999 204 65 240

----- BIT_ARRAY at Stack Level : 3 -----

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000100000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000010000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 1000000000
000000

Kaye 999 999 204 65 240

Kaye 999 999 204 65 240

Hash_Source_And_Target called at Stack Level : 3

Source Bucket No. 204 ---

Kaye Arthur

--- Target Bucket No. 204 ---

Kaye Merelyn S

Kaye Zachary A

Only_One_Bit_Set? is true with an address : 204 and the next address : 999
Merge Relations At Stack Level 3 with Bucket Number 204

Kaye Arthur Kaye Merelyn S
Kaye Arthur Kaye Zachary A

Popped, Stack Pointer is 2 from 3

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 86 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Morris 999 204 207 56 242

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000100000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000100 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000001000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0010000000
000000

Morris 999 204 207 56 242
Morris 999 204 207 56 242
Morris 999 204 207 56 242
Morris 999 204 207 56 242
Morris 999 204 207 56 242
Morris 999 204 207 56 242
Morris 999 204 207 56 242

Hash_Source_And_Target called at Stack Level : 2

Source Bucket No. 204 ---
Morris Anthony

--- Target Bucket No. 204 ---
Morris James A
Morris Ronald W

Morris Jeter
Morris Donna
Morris Debbie
Morris Barry

Only_One_Bit_Set? is true with an address : 204 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 204

Morris	Anthony	Morris	James A
Morris	Anthony	Morris	Ronald W
Morris	Anthony	Morris	Mollie
Morris	Anthony	Morris	Jeter
Morris	Anthony	Morris	Donna
Morris	Anthony	Morris	Debbie
Morris	Anthony	Morris	Barry

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 88 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Brewington 999 153 219 143 40

----- BIT_ARRAY at Stack Level : 2 -----
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000100000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----
(0000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000001 000000000 000000000 000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 001000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
000000000 000000000 000000000 000000000 100000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

veach 999 47 79 33 39

h_Source_And_Target called at Stack Level : 2

Only_One_Bit_Set? is true with an address : -1 and the next address : 999
There are no keys to be merged in this level.

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 92 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Snider 999 137 236 13 50

----- BIT_ARRAY at Stack Level : 2 -----

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000100 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000

----- BIT_ARRAY at Stack Level : 3 -----

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000001000 0000000000
0000000000

----- BIT_ARRAY at Stack Level : 4 -----

0000000000 0001000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000

----- BIT_ARRAY at Stack Level : 5 -----

0000000000 0000000000 0000000000 0000000000 0000000000
1000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000

Snider 999 137 236 13 50

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 137 ---

Snider Adrienne

--- Target Bucket No. 137 ---

Snider Giovanni

Only_One_Bit_Set? is true with an address : 137 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 137

Snider Adrienne Snider Giovanni

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 93 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Snider 999 233 120 232 206

----- BIT_ARRAY at Stack Level : 2 -----

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000

0000000000 0000000000 0000000000 0001000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 1000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0010000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000001000 0000000000 0000000000 0000000000 0000000000
000000

Jones	999	233	120	232	206
Jones	999	233	120	232	206

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 233 ---
Jones Aubrey B III

--- Target Bucket No. 233 ---
Jones Geor
Jones S L

Only_One_Bit_Set? is true with an address : 233 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 233

Jones	Aubrey B III	Jones	Geor
Jones	Aubrey B III	Jones	S L

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 95 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Kallen	999	16	117	122	197
Coleman	999	143	2	149	82
McLellan	999	19	118	67	139
Coleman	999	143	2	149	82

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 000001001 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0001000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 2 -----


```
0010000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000110 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

```
----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000100 0000000000 0000000000 0000000000
0000000000 0000000000 0010000000 0000000000 0000000001
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

```
----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0010000000 0000000000
0000000000 0000000000 0000000000 0000000001 0000000000
0000000000 0000000000 0000000000 0000000000 0000000100
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

```
Coleman          999    143      2    149    82
```

```
Hash_Source_And_Target called at Stack Level : 2
```

```
--- Source Bucket No. 143 ---
Coleman          Alessa
Coleman          Albert
```

```
--- Target Bucket No. 143 ---
Coleman          Dillon
```

```
ly_One_Bit_Set? is false with an address : 143 and the next address : 999
```

```
Assign_Source_And_T ==> Address Number : 143 Stack Number : 2
```

```
Pushed, Stack Pointer is 3 from 2
Coleman          999    999    129    202    169
Coleman          999    999    129    202    169
```

```
----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000001 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

```
----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0010000000 0000000000 0000000000 0000000000 0000000000
000000
```

```
----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000001 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

Coleman 999 999 129 202 169

Hash_Source_And_Target called at Stack Level : 3

--- Source Bucket No. 129 ---

Coleman Albert
Coleman Alessa

- Target Bucket No. 129 ---

Coleman Dillon

Only_One_Bit_Set? is true with an address : 129 and the next address : 999
Merge Relations At Stack Level 3 with Bucket Number 129

Coleman Albert Coleman Dillon

Coleman Alessa Coleman Dillon

Popped, Stack Pointer is 2 from 3

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 109 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Hiles	999	254	119	249	198
Evans	999	176	169	51	13
Evans	999	176	169	51	13
Evans	999	176	169	51	13
vemp	999	229	137	209	193

----- BIT_ARRAY at Stack Level : 2 -----

```

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000001000 0000000000 0000000000
0000000000 0000000000 0000000001 0000000000 0000000000
000010

```

----- BIT_ARRAY at Stack Level : 3 -----

```

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000001 0000000000 0000000100 0000000000
0000000000 0000000001 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

```

----- BIT_ARRAY at Stack Level : 4 -----

```

0000000000 0000000000 0000000000 0000000000 0000000000
0100000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000001 0000000000 0000000000 0000000000 0000000001
000000

```

----- BIT_ARRAY at Stack Level : 5 -----

```

0000000000 0001000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0001000010
0000000000 0000000000 0000000000 0000000000 0000000000
000000

```


0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

Evans	999	999	84	25	6
Evans	999	999	84	25	6
Evans	999	999	84	25	6
Evans	999	999	84	25	6
Evans	999	999	84	25	6
Evans	999	999	84	25	6
Evans	999	999	84	25	6
Evans	999	999	84	25	6
Evans	999	999	84	25	6
Evans	999	999	84	25	6
Evans	999	999	84	25	6
Evans	999	999	84	25	6
Evans	999	999	84	25	6
Evans	999	999	84	25	6
Evans	999	999	84	25	6

Hash_Source_And_Target called at Stack Level : 3

--- Source Bucket No. 84 ---

Evans	A Lee
Evans	Alan
Evans	Albert J

--- Target Bucket No. 84 ---

Evans	David L
Evans	Dennis
Evans	Donald
Evans	Dorothy
Evans	Doug
Evans	Dwight
Evans	Eddie
Evans	Eliot D
Evans	Elizabeth D
Evans	Frank
Evans	Franklin N
Evans	Gordon
Evans	Gaynelle
Evans	Thomas E III

Only_One_Bit_Set? is true with an address : 84 and the next address : 999
Merge Relations At Stack Level 3 with Bucket Number 84

Evans	A Lee	Evans	David L
Evans	A Lee	Evans	Dennis
Evans	A Lee	Evans	Donald
Evans	A Lee	Evans	Dorothy
Evans	A Lee	Evans	Doug
Evans	A Lee	Evans	Dwight
Evans	A Lee	Evans	Eddie
Evans	A Lee	Evans	Eliot D
Evans	A Lee	Evans	Elizabeth D
Evans	A Lee	Evans	Frank
Evans	A Lee	Evans	Franklin N
Evans	A Lee	Evans	Gordon
Evans	A Lee	Evans	Gaynelle
Evans	A Lee	Evans	Thomas E III

Evans	Alan	Evans	David L
Evans	Alan	Evans	Dennis
Evans	Alan	Evans	Donald

Evans	Alan	Evans	Doug
Evans	Alan	Evans	Dwight
Evans	Alan	Evans	Eddie
Evans	Alan	Evans	Eliot D
Evans	Alan	Evans	Elizabeth D
Evans	Alan	Evans	Frank
Evans	Alan	Evans	Franklin N
Evans	Alan	Evans	Gordon
Evans	Alan	Evans	Gaynelle
Evans	Alan	Evans	Thomas E III

Evans	Albert J	Evans	David L
Evans	Albert J	Evans	Dennis
Evans	Albert J	Evans	Donald
Evans	Albert J	Evans	Dorothy
Evans	Albert J	Evans	Doug
Evans	Albert J	Evans	Dwight
Evans	Albert J	Evans	Eddie
Evans	Albert J	Evans	Eliot D
Evans	Albert J	Evans	Elizabeth D
Evans	Albert J	Evans	Frank
Evans	Albert J	Evans	Franklin N
Evans	Albert J	Evans	Gordon
Evans	Albert J	Evans	Gaynelle
Evans	Albert J	Evans	Thomas E III

Popped, Stack Pointer is 2 from 3

Popped, Stack Pointer is 1 from 2

sign_Source_And_T ==> Address Number : 121 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Alonso 999 46 39 73 94

```

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0000000000 0000000000 0000001000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

```

```

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000001 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

```

```

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0001000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

```

```

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000100000
0000000000 0000000000 0000000000 0000000000 0000000000

```

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

Alonso 999 46 39 73 94

Hash_Source_And_Target called at Stack Level : 2

- Source Bucket No. 46 ---
Alonso Adriana

--- Target Bucket No. 46 ---
Alonso Elena T

Only_One_Bit_Set? is true with an address : 46 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 46

Alonso Adriana Alonso Elena T

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 122 Stack Number : 1

Pushed, Stack Pointer is 2 from 1
Crawford 999 16 254 139 206

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000001000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
^0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000010

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000001 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000001000 0000000000 0000000000 0000000000 0000000000
000000

Crawford 999 16 254 139 206
Crawford 999 16 254 139 206
Crawford 999 16 254 139 206
Crawford 999 16 254 139 206
Crawford 999 16 254 139 206
Crawford 999 16 254 139 206

Crawford 999 16 254 139 206

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 16 ---
Crawford Andrews B Maj

- Target Bucket No. 16 ---
Crawford Richard I Col
Crawford Thelma M
Crawford Steven
Crawford Pauline
Crawford Douglas P
Crawford Claudia C
Crawford Cathrine

Only_One_Bit_Set? is true with an address : 16 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 16

Crawford	Andrews B Maj	Crawford	Richard I Col
Crawford	Andrews B Maj	Crawford	Thelma M
Crawford	Andrews B Maj	Crawford	Steven
Crawford	Andrews B Maj	Crawford	Pauline
Crawford	Andrews B Maj	Crawford	Douglas P
Crawford	Andrews B Maj	Crawford	Claudia C
Crawford	Andrews B Maj	Crawford	Cathrine

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 126 Stack Number : 1

hed, Stack Pointer is 2 from 1

Smith	999	25	31	60	175
Hall	999	27	27	198	183
Pome	999	224	135	11	209

----- BIT_ARRAY at Stack Level : 2 -----

```
000000000 000000000 000010100 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000100000 000000000 000000000
000000
```

----- BIT_ARRAY at Stack Level : 3 -----

```
000000000 000000000 000000100 010000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000010000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000
```

----- BIT_ARRAY at Stack Level : 4 -----

```
000000000 010000000 000000000 000000000 000000000
000000000 100000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000010
000000000 000000000 000000000 000000000 000000000
000000
```

----- BIT_ARRAY at Stack Level : 5 -----

```
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
```

0000000000 0000000000 0000010000 0001000000 0000000000
0000000001 0000000000 0000000000 0000000000 0000000000
000000

Smith	999	25	31	60	175
Hall	999	27	27	198	183
Smith	999	25	31	60	175
Smith	999	25	31	60	175
Smith	999	25	31	60	175
Smith	999	25	31	60	175
Smith	999	25	31	60	175
Smith	999	25	31	60	175
Smith	999	25	31	60	175
Smith	999	25	31	60	175
Smith	999	25	31	60	175
Smith	999	25	31	60	175
Smith	999	25	31	60	175
Smith	999	25	31	60	175
Smith	999	25	31	60	175
Hall	999	27	27	198	183
Smith	999	25	31	60	175
Smith	999	25	31	60	175
Smith	999	25	31	60	175
Smith	999	25	31	60	175
Smith	999	25	31	60	175
Smith	999	25	31	60	175
Smith	999	25	31	60	175
Hall	999	27	27	198	183
Smith	999	25	31	60	175
Smith	999	25	31	60	175

Hash_Source_And_Target called at Stack Level : 2

Source Bucket No. 25 ---
Smith Alan

--- Target Bucket No. 25 ---
Smith Sylvester
Smith Robin E
Smith Herbert E Capt
Smith Gary R
Smith Melinda K
Smith David S Jr
Smith Samuel
Smith R E
Smith Wm Lewis
Smith Theodore H
Smith Navarro
Smith Merrill L
Smith Mark E
Smith Kevin R
Smith Jefferson S
Smith Darrell W
Smith Dana
Smith Christine
Smith Chester H
Smith Caroline
Smith Chip
Smith Mary
Smith Marian

--- Source Bucket No. 27 ---
Hall Anne Schleiger

--- Target Bucket No. 27 ---

Smith Chip
 Smith Caroline
 Smith Chester H
 Smith Christine
 Smith Dana
 Smith Darrell W
 Smith Jefferson S
 Smith Kevin R
 Smith Mark E
 Smith Merrill L
 Smith Navarro
 Smith Theodore H
 Smith Wm Lewis
 Smith R E
 Smith Samuel
 Smith David S Jr
 Smith Melinda K
 Smith Gary R
 Smith Herbert E Capt
 Smith Robin E
 Smith Sylvester

Only_One_Bit_Set? is true with an address : 143 and the next address : 999
 Merge Relations At Stack Level 3 with Bucket Number 143

Smith	Alan	Smith	Marian
Smith	Alan	Smith	Mary
Smith	Alan	Smith	Chip
Smith	Alan	Smith	Caroline
Smith	Alan	Smith	Chester H
Smith	Alan	Smith	Christine
Smith	Alan	Smith	Dana
Smith	Alan	Smith	Darrell W
Smith	Alan	Smith	Jefferson S
Smith	Alan	Smith	Kevin R
Smith	Alan	Smith	Mark E
Smith	Alan	Smith	Merrill L
Smith	Alan	Smith	Navarro
Smith	Alan	Smith	Theodore H
Smith	Alan	Smith	Wm Lewis
Smith	Alan	Smith	R E
Smith	Alan	Smith	Samuel
Smith	Alan	Smith	David S Jr
Smith	Alan	Smith	Melinda K
Smith	Alan	Smith	Gary R
Smith	Alan	Smith	Herbert E Capt
Smith	Alan	Smith	Robin E
Smith	Alan	Smith	Sylvester

Popped, Stack Pointer is 2 from 3

Assign_Source_And_T ==> Address Number : 27 Stack Number : 2

Pushed, Stack Pointer is 3 from 2

Hall 999 999 141 227 91

----- BIT_ARRAY at Stack Level : 3 -----
 00000000 00000000 00000000 00000000 00000000
 00000000 00000000 00000000 00000000 00000000
 00000000 00000000 00000000 00000000 01000000
 00000000 00000000 00000000 00000000 00000000
 00000000 00000000 00000000 00000000 00000000
 000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000100 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0100000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

Hall	999	999	141	227	91
Hall	999	999	141	227	91
Hall	999	999	141	227	91

Hash_Source_And_Target called at Stack Level : 3

--- Source Bucket No. 141 ---
Hall Anne Schleiger

--- Target Bucket No. 141 ---
Hall Patrick
Hall Robert A
Hall Lester

Only_One_Bit_Set? is true with an address : 141 and the next address : 999
Merge Relations At Stack Level 3 with Bucket Number 141

Hall	Anne Schleiger	Hall	Patrick
Hall	Anne Schleiger	Hall	Robert A
Hall	Anne Schleiger	Hall	Lester

Popped, Stack Pointer is 2 from 3

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 129 Stack Number : 1

Pushed, Stack Pointer is 2 from 1
Russell 999 240 179 158 127

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 1000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000001 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000

```
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000010 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

```
----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000100 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

```
Monyak                999      35      215      51      133
```

```
Hash_Source_And_Target called at Stack Level : 2
```

```
Only_One_Bit_Set? is true with an address : -1 and the next address : 999
There are no keys to be merged in this level.
```

```
Popped, Stack Pointer is 1 from 2
```

```
Assign_Source_And_T ==> Address Number : 131 Stack Number : 1
```

```
Pushed, Stack Pointer is 2 from 1
Thompson                999      22      0      73      78
```

```
----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0010000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

```
----- BIT_ARRAY at Stack Level : 3 -----
1000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

```
----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0001000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

```
----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000010 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

```
Thompson                999      22      0      73      78
Thompson                999      22      0      73      78
Thompson                999      22      0      73      78
Thompson                999      22      0      73      78
```

--- Source Bucket No. 22 ---
Thompson A

--- Target Bucket No. 22 ---
Thompson Blair A
Thompson William E
Thompson John H
Thompson John F

Only_One_Bit_Set? is true with an address : 22 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 22

Thompson	A	Thompson	Blair A
Thompson	A	Thompson	William E
Thompson	A	Thompson	John H
Thompson	A	Thompson	John F

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 137 Stack Number : 1

Pushed, Stack Pointer is 2 from 1
Zumstein 999 102 26 91 62

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0010000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 000001000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0100000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0010000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

..anne 999 165 220 113 161

Hash_Source_And_Target called at Stack Level : 2

Only_One_Bit_Set? is true with an address : -1 and the next address : 999
There are no keys to be merged in this level.

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 165 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Krause 999 177 33 109 10

```

----- BIT_ARRAY at Stack Level : 2 -----
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000100 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

```

```

----- BIT_ARRAY at Stack Level : 3 -----
000000000 000000000 000000000 000100000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

```

```

----- BIT_ARRAY at Stack Level : 4 -----
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000001 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

```

```

----- BIT_ARRAY at Stack Level : 5 -----
^000000000 100000000 000000000 000000000 000000000
)00000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

```

Krause 999 177 33 109 10
Krause 999 177 33 109 10
Krause 999 177 33 109 10

Hash_Source_And_Target called at Stack Level : 2

```

--- Source Bucket No. 177 ---
Krause Araine

```

```

--- Target Bucket No. 177 ---
Krause Walter P
Krause Jeffrey
Krause Grant

```

Only_One_Bit_Set? is true with an address : 177 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 177

```

Krause Araine Krause Walter P
Krause Araine Krause Jeffrey
Krause Araine Krause Grant

```

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 175 Stack Number : 1

Pushed, Stack Pointer is 2 from 1
Koumas 999 84 182 108 95

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000100000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0010000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000010 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000010000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000

Chankeris 999 145 226 158 255

Hash_Source_And_Target called at Stack Level : 2

Only_One_Bit_Set? is true with an address : -1 and the next address : 999
There are no keys to be merged in this level.

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 177 Stack Number : 1

Pushed, Stack Pointer is 2 from 1
Dorsey 999 55 171 8 41
Dorsey 999 55 171 8 41

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000010000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0100000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

```

----- BIT_ARRAY at Stack Level : 4 -----
0000000010 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

```

```

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0100000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

```

Dorsey	999	55	171	8	41
Dorsey	999	55	171	8	41
Dorsey	999	55	171	8	41
Dorsey	999	55	171	8	41
Dorsey	999	55	171	8	41
Dorsey	999	55	171	8	41
Dorsey	999	55	171	8	41
Dorsey	999	55	171	8	41
Dorsey	999	55	171	8	41
Dorsey	999	55	171	8	41
Dorsey	999	55	171	8	41
Dorsey	999	55	171	8	41

Hash_Source_And_Target called at Stack Level : 2

```

--- Source Bucket No. 55 ---
Dorsey      Anne
Dorsey      Ann

```

```

--- Target Bucket No. 55 ---
Dorsey      Katheleen M
Dorsey      John
Dorsey      Jeff L
Dorsey      Harry Philip
Dorsey      George L
Dorsey      Elsie
Dorsey      Elizabeth M
Dorsey      Deborah
Dorsey      Daniel K
Dorsey      Bryan
Dorsey      Bonnie
Dorsey      Barbara

```

Only_One_Bit_Set? is true with an address : 55 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 55

Dorsey	Anne	Dorsey	Katheleen M
Dorsey	Anne	Dorsey	John
Dorsey	Anne	Dorsey	Jeff L
Dorsey	Anne	Dorsey	Harry Philip
Dorsey	Anne	Dorsey	George L
Dorsey	Anne	Dorsey	Elsie
Dorsey	Anne	Dorsey	Elizabeth M
Dorsey	Anne	Dorsey	Deborah
Dorsey	Anne	Dorsey	Daniel K
Dorsey	Anne	Dorsey	Bryan
Dorsey	Anne	Dorsey	Bonnie
Dorsey	Anne	Dorsey	Barbara

Dorsey	Ann	Dorsey	Katheleen M
Dorsey	Ann	Dorsey	John
Dorsey	Ann	Dorsey	Jeff L
Dorsey	Ann	Dorsey	Harry Philip
Dorsey	Ann	Dorsey	George L
Dorsey	Ann	Dorsey	Elsie
Dorsey	Ann	Dorsey	Elizabeth M
sey	Ann	Dorsey	Deboragh
Dorsey	Ann	Dorsey	Daniel K
Dorsey	Ann	Dorsey	Bryan
Dorsey	Ann	Dorsey	Bonnie
Dorsey	Ann	Dorsey	Barbara

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 179 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Dunbar 999 177 190 184 33

```

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000100 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000

```

```

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 1000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000

```

```

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000100000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000

```

```

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0001000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000

```

Dunbar 999 177 190 184 33
Dunbar 999 177 190 184 33

Hash_Source_And_Target called at Stack Level : 2

- Source Bucket No. 177 ---
Dunbar Annie

--- Target Bucket No. 177 ---
Dunbar Frederick
Dunbar Bradley

Only_One_Bit_Set? is true with an address : 177 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 177

Dunbar	Annie	Dunbar	Frederick
Dunbar	Annie	Dunbar	Bradley

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 183 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Lazarus	999	22	215	208	147
Herbert	999	179	69	149	219
Herbert	999	179	69	149	219

----- BIT_ARRAY at Stack Level : 2 -----

```
0000000000 0000000000 0010000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000001 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

----- BIT_ARRAY at Stack Level : 3 -----

```
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000001 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000010000 0000000000 0000000000 0000000000
000000
```

----- BIT_ARRAY at Stack Level : 4 -----

```
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000001
0000000000 0000000000 0000000000 0000000000 0000000000
0000000010 0000000000 0000000000 0000000000 0000000000
000000
```

----- BIT_ARRAY at Stack Level : 5 -----

```
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000100
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000001 0000000000 0000000000 0000000000
000000
```

Herbert	999	179	69	149	219
Herbert	999	179	69	149	219
Herbert	999	179	69	149	219
Herbert	999	179	69	149	219
Herbert	999	179	69	149	219
Herbert	999	179	69	149	219
Herbert	999	179	69	149	219
Herbert	999	179	69	149	219
Herbert	999	179	69	149	219

_sh_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 179 ---

Herbert	Arthur Carrier
Herbert	Anita J

Target Bucket No. 179

```

Herbert      Walter C Jr
Herbert      Lennell
Herbert      Jule Jr
Herbert      Jos A
Herbert      John
Herbert      Isabel
Herbert      Douglas C
Herbert      Clayton W
Herbert      Charrick L

```

Only_One_Bit_Set? is false with an address : 179 and the next address : 999

Assign_Source_And_T ==> Address Number : 179 Stack Number : 2

Pushed, Stack Pointer is 3 from 2

```

Herbert      999      999      162      202      109
Herbert      999      999      162      202      109

```

```

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0010000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

```

```

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0010000000 0000000000 0000000000 0000000000 0000000000
000000

```

```

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000001 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

```

```

Herbert      999      999      162      202      109
Herbert      999      999      162      202      109
Herbert      999      999      162      202      109
Herbert      999      999      162      202      109
Herbert      999      999      162      202      109
Herbert      999      999      162      202      109
Herbert      999      999      162      202      109
Herbert      999      999      162      202      109
Herbert      999      999      162      202      109

```

Hash_Source_And_Target called at Stack Level : 3

```

--- Source Bucket No. 162 ---
Herbert      Anita J
Herbert      Arthur Carrier

```

```

- - Target Bucket No. 162 ---
Herbert      Charrick L
Herbert      Clayton W
Herbert      Douglas C
Herbert      Isabel
Herbert      John
Herbert      Jos A
Herbert

```

Herbert Lennell
Herbert Walter C Jr

Only_One_Bit_Set? is true with an address : 162 and the next address : 999
Merge Relations At Stack Level 3 with Bucket Number 162

Herbert	Anita J	Herbert	Charrick L
Herbert	Anita J	Herbert	Clayton W
Herbert	Anita J	Herbert	Douglas C
Herbert	Anita J	Herbert	Isabel
Herbert	Anita J	Herbert	John
Herbert	Anita J	Herbert	Jos A
Herbert	Anita J	Herbert	Jule Jr
Herbert	Anita J	Herbert	Lennell
Herbert	Anita J	Herbert	Walter C Jr

Herbert	Arthur Carrier	Herbert	Charrick L
Herbert	Arthur Carrier	Herbert	Clayton W
Herbert	Arthur Carrier	Herbert	Douglas C
Herbert	Arthur Carrier	Herbert	Isabel
Herbert	Arthur Carrier	Herbert	John
Herbert	Arthur Carrier	Herbert	Jos A
Herbert	Arthur Carrier	Herbert	Jule Jr
Herbert	Arthur Carrier	Herbert	Lennell
Herbert	Arthur Carrier	Herbert	Walter C Jr

Popped, Stack Pointer is 2 from 3

Popped, Stack Pointer is 1 from 2

ign_Source_And_T ==> Address Number : 185 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Pulliam	999	241	238	198	197
Kaplan	999	85	79	53	62

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000010000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0100000000
000000

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000001 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000010 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0001000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000010
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000100
0000000000 0000000000 0000000000 0000000000 0000000000
000000

Kaplan 999 85 79 53 62

h_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 85 ---
Kaplan Abraham O

--- Target Bucket No. 85 ---
Kaplan Maynard H

Only_One_Bit_Set? is false with an address : 85 and the next address : 999

Assign_Source_And_T ==> Address Number : 85 Stack Number : 2

Pushed, Stack Pointer is 3 from 2
Kaplan 999 999 39 26 159

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000001 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000001000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000001 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

Kaplan 999 999 39 26 159

Hash_Source_And_Target called at Stack Level : 3

--- Source Bucket No. 39 ---
Kaplan Abraham O

--- Target Bucket No. 39 ---
Kaplan Maynard H

Only_One_Bit_Set? is true with an address : 39 and the next address : 999
Merge Relations At Stack Level 3 with Bucket Number 39

Kaplan Abraham O Kaplan Maynard H

Popped, Stack Pointer is 2 from 3

Assign_Source_And_T ==> Address Number : 190 Stack. Number : 1

Pushed, Stack Pointer is 2 from 1

Horton	999	95	89	239	46
Chamberlain	999	105	13	67	153

----- BIT_ARRAY at Stack Level : 2 -----

```

000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000010000
000010000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

```

----- BIT_ARRAY at Stack Level : 3 -----

```

000000000 000100000 000000000 000000000 000000000
000000000 000000000 000000000 000000001 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

```

----- BIT_ARRAY at Stack Level : 4 -----

```

000000000 000000000 000000000 000000000 000000000
000000000 000000100 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000001 000000000
000000

```

----- BIT_ARRAY at Stack Level : 5 -----

```

000000000 000000000 000000000 000000000 000001000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000100000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

```

Chamberlain	999	105	13	67	153
-------------	-----	-----	----	----	-----

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 105 ---
Chamberlain Alexander Scott

--- Target Bucket No. 105 ---
Chamberlain Patricia

Only_One_Bit_Set? is false with an address : 105 and the next address : 999

Assign_Source_And_T ==> Address Number : 105 Stack Number : 2

Pushed, Stack Pointer is 3 from 2

Chamberlain	999	999	134	161	204
-------------	-----	-----	-----	-----	-----

----- BIT_ARRAY at Stack Level : 3 -----

```

000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000100000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

```

----- BIT_ARRAY at Stack Level : 4 -----

```

000000000 000000000 000000000 000000000 000000000

```

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0100000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000100000 0000000000 0000000000 0000000000 0000000000
000000

Chamberlain 999 999 134 161 204

Hash_Source_And_Target called at Stack Level : 3

--- Source Bucket No. 134 ---
Chamberlain Alexander Scott

--- Target Bucket No. 134 ---
Chamberlain Patricia

Only_One_Bit_Set? is true with an address : 134 and the next address : 999
Merge Relations At Stack Level 3 with Bucket Number 134

Chamberlain Alexander Scott Chamberlain Patricia

Popped, Stack Pointer is 2 from 3

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 192 Stack Number : 1

Pushed, Stack Pointer is 2 from 1
Johnson 999 222 220 152 81

----- BIT_ARRAY at Stack Level : 2 -----

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0010000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 1000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0010000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----

0000000000 0000000000 0000000000 0000000000 0000000000

0000000000 0000000000 0000000000 0100000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

Johnson	999	222	220	152	81
Johnson	999	222	220	152	81
Johnson	999	222	220	152	81
Johnson	999	222	220	152	81
Johnson	999	222	220	152	81
Johnson	999	222	220	152	81
Johnson	999	222	220	152	81
Johnson	999	222	220	152	81
Johnson	999	222	220	152	81
Johnson	999	222	220	152	81
Johnson	999	222	220	152	81
Johnson	999	222	220	152	81
Johnson	999	222	220	152	81
Johnson	999	222	220	152	81
Johnson	999	222	220	152	81

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 222 ---
Johnson Allen O

--- Target Bucket No. 222 ---
Johnson P
Johnson Claud H
Johnson Moddie
Johnson George S
Johnson Howard
Johnson Greg
Johnson Emery
Johnson Edgar M
Johnson Dixie L
Johnson Darrell
Johnson Clifford P
Johnson Carrie
Johnson Byron
Johnson Winston E

Only_One_Bit_Set? is true with an address : 222 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 222

Johnson	Allen O	Johnson	P
Johnson	Allen O	Johnson	Claud H
Johnson	Allen O	Johnson	Moddie
Johnson	Allen O	Johnson	George S
Johnson	Allen O	Johnson	Howard
Johnson	Allen O	Johnson	Greg
Johnson	Allen O	Johnson	Emery
Johnson	Allen O	Johnson	Edgar M
Johnson	Allen O	Johnson	Dixie L
Johnson	Allen O	Johnson	Darrell
Johnson	Allen O	Johnson	Clifford P
Johnson	Allen O	Johnson	Carrie
Johnson	Allen O	Johnson	Byron
Johnson	Allen O	Johnson	Winston E

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 196 Stack Number : 1

Pushed, Stack Pointer is 2 from 1
Chrisman 999 218 204 213 100
Ali 999 90 161 174 30
Imler 999 72 201 51 129

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0010000000 0000000000 1000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000010 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0100000000 0000000000 0000000000 0000000000
0100100000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0100000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000100000 0000000000 0000000000
0000000000 0001000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 1000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000001 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

Ali 999 90 161 174 30

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 90 ---
Ali Ashraf

--- Target Bucket No. 90 ---
Ali Mohammad

Only_One_Bit_Set? is false with an address : 90 and the next address : 999

Assign_Source_And_T ==> Address Number : 90 Stack Number : 2

Pushed, Stack Pointer is 3 from 2
Ali 999 999 80 215 143

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 1000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000010000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0001000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

Ali 999 999 80 215 143

Hash_Source_And_Target called at Stack Level : 3

--- Source Bucket No. 80 ---
Ali Ashraf

--- Target Bucket No. 80 ---
Ali Mohammad

Only_One_Bit_Set? is true with an address : 80 and the next address : 999
Merge_Relations At Stack Level 3 with Bucket Number 80

Ali Ashraf Ali Mohammad

Popped, Stack Pointer is 2 from 3

Popped, Stack Pointer is 1 from 2

;sign_Source_And_T ==> Address Number : 198 Stack Number : 1

Pushed, Stack Pointer is 2 from 1
Briggs 999 109 84 152 37
Wyman 999 234 245 241 245

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000001 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000100000 0000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000100000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000010000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0100000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000100 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000010000
000000

Briggs	999	109	84	152	37
Briggs	999	109	84	152	37
Briggs	999	109	84	152	37
Briggs	999	109	84	152	37
Briggs	999	109	84	152	37

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 109 ---
Briggs Albert

--- Target Bucket No. 109 ---
Briggs Winston D
Briggs Winston D
Briggs Marcus
Briggs Gary G
Briggs Duncan

Only_One_Bit_Set? is false with an address : 109 and the next address : 999

Assign_Source_And_T ==> Address Number : 109 Stack Number : 2

Pushed, Stack Pointer is 3 from 2
Briggs 999 999 42 76 146

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0010000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000010000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000010000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

Briggs	999	999	42	76	146
Briggs	999	999	42	76	146
Briggs	999	999	42	76	146
Briggs	999	999	42	76	146
Briggs	999	999	42	76	146

Hash_Source_And_Target called at Stack Level : 3

--- Source Bucket No. 42 ---
Briggs Albert

Briggs Duncan
Briggs Gary G
Briggs Marcus
Briggs Winston D
Briggs Winston D

Only_One_Bit_Set? is true with an address : 42 and the next address : 999
ge Relations At Stack Level 3 with Bucket Number 42

Briggs	Albert	Briggs	Duncan
Briggs	Albert	Briggs	Gary G
Briggs	Albert	Briggs	Marcus
Briggs	Albert	Briggs	Winston D
Briggs	Albert	Briggs	Winston D

Popped, Stack Pointer is 2 from 3

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 202 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Kemper	999	165	64	123	30
Stidham	999	225	231	46	170

----- BIT_ARRAY at Stack Level : 2 -----
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000010000 000000000 000000000 000000000
000000000 000000000 000010000 000000000 000000000
1000

----- BIT_ARRAY at Stack Level : 3 -----
000000000 000000000 000000000 000000000 000000000
000000000 000010000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 010000000 000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
000000000 000000000 000000000 000000000 0000001000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000100000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
000000000 000000000 000000000 1000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 1000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

.emper	999	165	64	123	30
Kemper	999	165	64	123	30

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 165 ---

--- Target Bucket No. 165 ---

Kemper Sandra
Kemper Beryl

Only_One_Bit_Set? is false with an address : 165 and the next address : 999

- ign_Source_And_T ==> Address Number : 165 Stack Number : 2

Pushed, Stack Pointer is 3 from 2

Kemper 999 999 32 61 143

----- BIT ARRAY at Stack Level : 3 -----

000000000 000000000 000000000 001000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

----- BIT ARRAY at Stack Level : 4 -----

000000000 000000000 000000000 000000000 000000000
000000000 010000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

----- BIT ARRAY at Stack Level : 5 -----

000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000100000
000000000 000000000 000000000 000000000 000000000
000000000 000000000 000000000 000000000 000000000
000000

Kemper 999 999 32 61 143
Kemper 999 999 32 61 143

Hash_Source_And_Target called at Stack Level : 3

--- Source Bucket No. 32 ---

Kemper Anthony J

--- Target Bucket No. 32 ---

Kemper Beryl
Kemper Sandra

Only_One_Bit_Set? is true with an address : 32 and the next address : 999
Merge Relations At Stack Level 3 with Bucket Number 32

Kemper Anthony J Kemper Beryl
Kemper Anthony J Kemper Sandra

Popped, Stack Pointer is 2 from 3

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 205 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Terry 999 145 251 209 1

----- BIT ARRAY at Stack Level : 0 -----

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000010000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----
J 0000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
010000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000001 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0100000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

Terry	999	145	251	209	1
Terry	999	145	251	209	1

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 145 ---
Terry Alex

--- Target Bucket No. 145 ---
Terry Noel
Terry Burdie

Only_One_Bit_Set? is true with an address : 145 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 145

Terry	Alex	Terry	Noel
Terry	Alex	Terry	Burdie

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 208 Stack Number : 1

Pushed, Stack Pointer is 2 from 1
Francke 999 150 102 74 253

----- BIT_ARRAY at Stack Level : 2 -----
J0000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
1000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

```
----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0010000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

```
----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000100000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

```
----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000100
```

```
Burns          999    240    62    160    51
Burns          999    240    62    160    51
Burns          999    240    62    160    51
```

Hash_Source_And_Target called at Stack Level : 2

Only_One_Bit_Set? is true with an address : -1 and the next address : 999
There are no keys to be merged in this level.

opped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 229 Stack Number : 1

Pushed, Stack Pointer is 2 from 1
Kendrick 999 74 35 194 98

```
----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000100000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

```
----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000010000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

```
----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000100000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

```
----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
```

0000000000 0000000000 0000000000 0000000000 0000000010
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

Kendrick 999 74 35 194 98
Kendrick 999 74 35 194 98

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 74 ---
Kendrick Anna Magaret

--- Target Bucket No. 74 ---
Kendrick Mary Parker
Kendrick Don

Only_One_Bit_Set? is true with an address : 74 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 74

Kendrick Anna Magaret Kendrick Mary Parker
Kendrick Anna Magaret Kendrick Don

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 231 Stack Number : 1

Pushed, Stack Pointer is 2 from 1
Carriker 999 213 182 147 209

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0001000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0010000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000100
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
00000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000001 0000000000 0000000000 0000000000 0000000000
000000

Hash_Source_And_Target called at Stack Level : 2

Only_One_Bit_Set? is true with an address : -1 and the next address : 999
There are no keys to be merged in this level.

Popped, Stack Pointer is 1 from 2

A ign_Source_And_T ==> Address Number : 236 Stack Number : 1

Pushed, Stack Pointer is 2 from 1

Hurtado	999	53	204	61	138
Burghal	999	84	142	126	107
Burke	999	101	207	95	213
Vaxmonsky	999	143	100	109	233

----- BIT_ARRAY at Stack Level : 2 -----

```

0000000000 0000000000 0000000000 0000000000 0000000000
0001000000 0000000000 0000000000 0000100000 0000000000
0100000000 0000000000 0000000000 0000000000 0001000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

```

----- BIT_ARRAY at Stack Level : 3 -----

```

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
1000000000 0000000000 0000000000 0000000000 0010000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000100100 0000000000 0000000000 0000000000 0000000000
000000

```

----- BIT_ARRAY at Stack Level : 4 -----

```

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0100000000 0000000000 0000000000 0000010000
0000000001 0000000000 0000001000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

```

----- BIT_ARRAY at Stack Level : 5 -----

```

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000100 0000000000 0000000000 0000000010 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0001000000 0000000000 0001000000 0000000000
000000

```

Burke	999	101	207	95	213
Burke	999	101	207	95	213
Burke	999	101	207	95	213
Burke	999	101	207	95	213
Burke	999	101	207	95	213

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 101 ---
Burke A

- Target Bucket No. 101 ---
Burke Carl J
Burke R S
Burke Miriam V
Burke Kathlenn
Burke Julia S

Only_One_Bit_Set? is false with an address : 101 and the next address : 999

Assign_Source_And_T ==> Address Number : 101 Stack Number : 2

Pushed, Stack Pointer is 3 from 2

Burke 999 999 103 175 234

----- BIT_ARRAY at Stack Level : 3 -----
00000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0001000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000010000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000100000 0000000000
000000

Burke 999 999 103 175 234
Burke 999 999 103 175 234
Burke 999 999 103 175 234
Burke 999 999 103 175 234
Burke 999 999 103 175 234

Hash_Source_And_Target called at Stack Level : 3

--- Source Bucket No. 103 ---
Burke A

--- Target Bucket No. 103 ---
Burke Julia S
Burke Kathlenn
Burke Miriam V
Burke R S
Burke Carl J

Only_One_Bit_Set? is true with an address : 103 and the next address : 999
Merge Relations At Stack Level 3 with Bucket Number 103

Burke A Burke Julia S
Burke A Burke Kathlenn
Burke A Burke Miriam V
Burke A Burke R S
Burke A Burke Carl J

Popped, Stack Pointer is 2 from 3

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 243 Stack Number : 1

Pushed, Stack Pointer is 2 from 1
Adel 999 159 238 96 186

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
^0000000001 0000000000 0000000000 0000000000 0000000000
_)000000 0000000000 0000000000 0000000000 0000000000
00u000

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000010 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000001000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000001000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
^000

DerBogolian 999 144 40 163 84

Hash_Source_And_Target called at Stack Level : 2

Only_One_Bit_Set? is true with an address : -1 and the next address : 999
There are no keys to be merged in this level.

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 249 Stack Number : 1

Pushed, Stack Pointer is 2 from 1
Foreman 999 149 148 73 184

----- BIT_ARRAY at Stack Level : 2 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000001
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 3 -----
0000000000 0000000000 0000000000 0000000000 0000000000
00000000 0000000000 0000000000 0000000000 0000000000
uu00000000 0000000000 0000000000 0000000000 0000000010
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----

```
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0001000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

----- BIT_ARRAY at Stack Level : 5 -----

```
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000100000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

Kapur	999	85	188	181	50
Kapur	999	85	188	181	50
Kapur	999	85	188	181	50
Kapur	999	85	188	181	50
Kapur	999	85	188	181	50
Kapur	999	85	188	181	50
Foreman	999	149	148	73	184
Foreman	999	149	148	73	184
Foreman	999	149	148	73	184
Foreman	999	149	148	73	184

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 149 ---
Foreman Amy

--- Target Bucket No. 149 ---
Foreman Tim J
Foreman Seth
Foreman George
Foreman Carter

Only_One_Bit_Set? is true with an address : 149 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 149

Foreman	Amy	Foreman	Tim J
Foreman	Amy	Foreman	Seth
Foreman	Amy	Foreman	George
Foreman	Amy	Foreman	Carter

Popped, Stack Pointer is 1 from 2

Assign_Source_And_T ==> Address Number : 252 Stack Number : 1

Pushed, Stack Pointer is 2 from 1
Bean 999 32 103 161 169

----- BIT_ARRAY at Stack Level : 2 -----

```
0000000000 0000000000 0000000000 0010000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000
```

----- BIT_ARRAY at Stack Level : 3 -----

```
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0001000000 0000000000 0000000000 0000000000 0000000000
```

0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 4 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
00000000 0100000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

----- BIT_ARRAY at Stack Level : 5 -----
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
0000000000 0000000001 0000000000 0000000000 0000000000
0000000000 0000000000 0000000000 0000000000 0000000000
000000

Bean	999	32	103	161	169
Bean	999	32	103	161	169

Hash_Source_And_Target called at Stack Level : 2

--- Source Bucket No. 32 ---
Bean A

--- Target Bucket No. 32 ---
Bean Cheri
Bean Harold G

Only_One_Bit_Set? is true with an address : 32 and the next address : 999
Merge Relations At Stack Level 2 with Bucket Number 32

Bean	A	Bean	Cheri
Bean	A	Bean	Harold G

Popped, Stack Pointer is 1 from 2

THE TOTAL NUMBER OF KEYS IN THE SOURCE RELATION : 155

THE TOTAL NUMBER OF KEYS IN THE TARGET RELATION : 1893

THE TOTAL NUMBER OF KEYS IN THE RESULT RELATION : 355

THE TOTAL NUMBER OF HASH CODER USED IN THE JOIN : 2426

STORAGE SUMMARY IN DECIMAL(HEX) BYTES

STACK	HEAP	UNUSED
452320(06E6E0)	278936(044198)	1652552(193748)

1	8888888	4	EEEEEEEE	N	NN	DDDDDDDD
11	888888888	44	EEEEEEEE	NN	NN	DDDDDDDDDD
111	88 88	444	EE	NNN	NN	DD DD
11	88 88	4444	EE	NNNN	NN	DD DD
11	8888888	44 44	-----	EEEEEE	NN NN NN	DD DD
11	8888888	44 44	-----	EEEEEE	NN NN NN	DD DD
11	88 88	4444444444	EE	NN	NNNN	DD DD
11	88 88	4444444444	EE	NN	NNN	DD DD
111111	888888888	44	EEEEEEEE	NN	NN	DDDDDDDDDD
111111	88888888	44	EEEEEEEE	NN	N	DDDDDDDD

PRINT COMPLETED AT 18:19:45 FOR USER: RSCSREC DIST: SHIN

EEEEEEEE	N	NN	DDDDDDDD	1	8888888	4
EEEEEEEE	NN	NN	DDDDDDDDDD	11	888888888	44
EE	NNN	NN	DD DD	111	88 88	444
EE	NNNN	NN	DD DD	11	88 88	4444
EEEEEE	NN NN	NN	DD DD	11	8888888	44 44
EEEEEE	NN NN	NN	DD DD	11	8888888	44 44
EE	NN	NNNN	DD DD	11	88 88	4444444444
EE	NN	NNN	DD DD	11	88 88	4444444444
EEEEEEEE	NN	NN	DDDDDDDDDD	111111	888888888	44
EEEEEEEE	NN	N	DDDDDDDD	111111	8888888	44

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DATE: 05 MAY 90 AT 18:20:13

DEPARTMENT: DFAULT:JDL*

JOB ID: 4984 REPORT NO. 140

FILE ID:

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INITIAL FORM LIST: -NONE

INITIAL CME LIST: -NONE

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