

6. Statistics for Hashing Simulation

-----< STATISTICS >-----

THE DIVISION HASH METHOD IS APPLIED TO
THE 1024 GENERALLY CHOSEN NAMES DATA.

MEAN SQUARE DEVIATION : 8.23

0 KEYS BUCKET = 22 : *****
1 KEYS BUCKET = 33 : *****
2 KEYS BUCKET = 35 : *****
3 KEYS BUCKET = 35 : *****
4 KEYS BUCKET = 33 : *****
5 KEYS BUCKET = 25 : *****
6 KEYS BUCKET = 26 : *****
7 KEYS BUCKET = 21 : *****
8 KEYS BUCKET = 8 : *****
9 KEYS BUCKET = 5 : *****
10 KEYS BUCKET = 4 : *****
11 KEYS BUCKET = 4 : *****
12 KEYS BUCKET = 3 : *****
13 KEYS BUCKET = 1 : *
14 KEYS BUCKET = 1 : *
15 KEYS BUCKET = 0 :
16 KEYS BUCKET = 0 :
17 KEYS BUCKET = 0 :
18 KEYS BUCKET = 0 :
19 KEYS BUCKET = 0 :
20 KEYS BUCKET = 0 :
21 KEYS BUCKET = 0 :
22 KEYS BUCKET = 0 :
23 KEYS BUCKET = 0 :
24 KEYS BUCKET = 0 :
25 KEYS BUCKET = 0 :
26 KEYS BUCKET = 0 :
27 KEYS BUCKET = 0 :
28 KEYS BUCKET = 0 :
29 KEYS BUCKET = 0 :
30 KEYS BUCKET = 0 :
31 KEYS BUCKET = 0 :
32 KEYS BUCKET = 0 :
33 KEYS BUCKET = 0 :
34 KEYS BUCKET = 0 :
35 KEYS BUCKET = 0 :
36 KEYS BUCKET = 0 :
37 KEYS BUCKET = 0 :
38 KEYS BUCKET = 0 :
39 KEYS BUCKET = 0 :
40 KEYS BUCKET = 0 :

OVER 40 KEYS BUCKET
= 0 :

-----< STATISTICS >-----

THE DIVISION HASH METHOD IS APPLIED TO

THE 1024 GENERALLY CHOSEN NAMES DATA.

MEAN SQUARE DEVIATION : 20.20

```
0 KEYS BUCKET = 128 : *****
*****
1 KEYS BUCKET = 0 :
2 KEYS BUCKET = 0 :
3 KEYS BUCKET = 3 : ***
4 KEYS BUCKET = 6 : *****
5 KEYS BUCKET = 14 : *****
6 KEYS BUCKET = 20 : *****
7 KEYS BUCKET = 18 : *****
8 KEYS BUCKET = 19 : *****
9 KEYS BUCKET = 17 : *****
10 KEYS BUCKET = 7 : *****
11 KEYS BUCKET = 9 : *****
12 KEYS BUCKET = 8 : *****
13 KEYS BUCKET = 4 : ****
14 KEYS BUCKET = 1 : *
15 KEYS BUCKET = 0 :
16 KEYS BUCKET = 1 : *
17 KEYS BUCKET = 0 :
18 KEYS BUCKET = 0 :
19 KEYS BUCKET = 0 :
20 KEYS BUCKET = 0 :
21 KEYS BUCKET = 0 :
22 KEYS BUCKET = 0 :
23 KEYS BUCKET = 1 : *
24 KEYS BUCKET = 0 :
25 KEYS BUCKET = 0 :
26 KEYS BUCKET = 0 :
27 KEYS BUCKET = 0 :
28 KEYS BUCKET = 0 :
29 KEYS BUCKET = 0 :
30 KEYS BUCKET = 0 :
31 KEYS BUCKET = 0 :
32 KEYS BUCKET = 0 :
33 KEYS BUCKET = 0 :
34 KEYS BUCKET = 0 :
35 KEYS BUCKET = 0 :
36 KEYS BUCKET = 0 :
37 KEYS BUCKET = 0 :
38 KEYS BUCKET = 0 :
39 KEYS BUCKET = 0 :
40 KEYS BUCKET = 0 :
```

OVER 40 KEYS BUCKET
= 0 :

-----< STATISTICS >-----

THE DIVISION HASH METHOD IS APPLIED TO
THE 1024 GENERALLY CHOSEN NAMES DATA.

MEAN SQUARE DEVIATION : 11.95

0 KEYS BUCKET = 43 : *****
1 KEYS BUCKET = 32 : *****
2 KEYS BUCKET = 28 : *****
3 KEYS BUCKET = 24 : *****
4 KEYS BUCKET = 31 : *****
5 KEYS BUCKET = 25 : *****
6 KEYS BUCKET = 16 : *****
7 KEYS BUCKET = 18 : *****
8 KEYS BUCKET = 10 : *****
9 KEYS BUCKET = 12 : *****
10 KEYS BUCKET = 4 : ****
11 KEYS BUCKET = 7 : *****
12 KEYS BUCKET = 1 : *
13 KEYS BUCKET = 2 : **
14 KEYS BUCKET = 2 : **
15 KEYS BUCKET = 0 :
16 KEYS BUCKET = 0 :
17 KEYS BUCKET = 0 :
18 KEYS BUCKET = 0 :
19 KEYS BUCKET = 0 :
20 KEYS BUCKET = 0 :
21 KEYS BUCKET = 0 :
22 KEYS BUCKET = 1 : *
23 KEYS BUCKET = 0 :
24 KEYS BUCKET = 0 :
25 KEYS BUCKET = 0 :
26 KEYS BUCKET = 0 :
27 KEYS BUCKET = 0 :
28 KEYS BUCKET = 0 :
29 KEYS BUCKET = 0 :
30 KEYS BUCKET = 0 :
31 KEYS BUCKET = 0 :
32 KEYS BUCKET = 0 :
33 KEYS BUCKET = 0 :
34 KEYS BUCKET = 0 :
35 KEYS BUCKET = 0 :
36 KEYS BUCKET = 0 :
37 KEYS BUCKET = 0 :
38 KEYS BUCKET = 0 :
39 KEYS BUCKET = 0 :
40 KEYS BUCKET = 0 :

OVER 40 KEYS BUCKET
= 0 :

-----< STATISTICS >-----

THE DIVISION HASH METHOD IS APPLIED TO
THE 1024 GENERALLY CHOSEN NAMES DATA.

MEAN SQUARE DEVIATION : 6.60

0 KEYS BUCKET = 13 : *****
1 KEYS BUCKET = 26 : *****
2 KEYS BUCKET = 45 : *****
3 KEYS BUCKET = 39 : *****
4 KEYS BUCKET = 37 : *****
5 KEYS BUCKET = 33 : *****
6 KEYS BUCKET = 23 : *****
7 KEYS BUCKET = 13 : *****
8 KEYS BUCKET = 10 : *****
9 KEYS BUCKET = 9 : *****
10 KEYS BUCKET = 4 : *****
11 KEYS BUCKET = 1 : *
12 KEYS BUCKET = 2 : **
13 KEYS BUCKET = 1 : *
14 KEYS BUCKET = 0 :
15 KEYS BUCKET = 0 :
16 KEYS BUCKET = 0 :
17 KEYS BUCKET = 0 :
18 KEYS BUCKET = 0 :
19 KEYS BUCKET = 0 :
20 KEYS BUCKET = 0 :
21 KEYS BUCKET = 0 :
22 KEYS BUCKET = 0 :
23 KEYS BUCKET = 0 :
24 KEYS BUCKET = 0 :
25 KEYS BUCKET = 0 :
26 KEYS BUCKET = 0 :
27 KEYS BUCKET = 0 :
28 KEYS BUCKET = 0 :
29 KEYS BUCKET = 0 :
30 KEYS BUCKET = 0 :
31 KEYS BUCKET = 0 :
32 KEYS BUCKET = 0 :
33 KEYS BUCKET = 0 :
34 KEYS BUCKET = 0 :
35 KEYS BUCKET = 0 :
36 KEYS BUCKET = 0 :
37 KEYS BUCKET = 0 :
38 KEYS BUCKET = 0 :
39 KEYS BUCKET = 0 :
40 KEYS BUCKET = 0 :

OVER 40 KEYS BUCKET
= 0 :

-----< STATISTICS >-----

THE DIVISION HASH METHOD IS APPLIED TO
THE 1024 GENERALLY CHOSEN NAMES DATA.

MEAN SQUARE DEVIATION : 4.45

0 KEYS BUCKET = 5 : *****
1 KEYS BUCKET = 23 :
2 KEYS BUCKET = 36 :
3 KEYS BUCKET = 46 :
4 KEYS BUCKET = 53 :
5 KEYS BUCKET = 39 :
6 KEYS BUCKET = 23 :
7 KEYS BUCKET = 17 :
8 KEYS BUCKET = 6 :
9 KEYS BUCKET = 4 :
10 KEYS BUCKET = 1 :
11 KEYS BUCKET = 3 :
12 KEYS BUCKET = 0 :
13 KEYS BUCKET = 0 :
14 KEYS BUCKET = 0 :
15 KEYS BUCKET = 0 :
16 KEYS BUCKET = 0 :
17 KEYS BUCKET = 0 :
18 KEYS BUCKET = 0 :
19 KEYS BUCKET = 0 :
20 KEYS BUCKET = 0 :
21 KEYS BUCKET = 0 :
22 KEYS BUCKET = 0 :
23 KEYS BUCKET = 0 :
24 KEYS BUCKET = 0 :
25 KEYS BUCKET = 0 :
26 KEYS BUCKET = 0 :
27 KEYS BUCKET = 0 :
28 KEYS BUCKET = 0 :
29 KEYS BUCKET = 0 :
30 KEYS BUCKET = 0 :
31 KEYS BUCKET = 0 :
32 KEYS BUCKET = 0 :
33 KEYS BUCKET = 0 :
34 KEYS BUCKET = 0 :
35 KEYS BUCKET = 0 :
36 KEYS BUCKET = 0 :
37 KEYS BUCKET = 0 :
38 KEYS BUCKET = 0 :
39 KEYS BUCKET = 0 :
40 KEYS BUCKET = 0 :

OVER 40 KEYS BUCKET
= 0 :

-----< STATISTICS >-----

THE DIVISION HASH METHOD IS APPLIED TO
THE 1024 GENERALLY CHOSEN NAMES DATA.

MEAN SQUARE DEVIATION : 4.31

0 KEYS BUCKET = 7 : *****
1 KEYS BUCKET = 13 : *****
2 KEYS BUCKET = 33 : *****
3 KEYS BUCKET = 62 : *****
4 KEYS BUCKET = 49 : *****
5 KEYS BUCKET = 42 : *****
6 KEYS BUCKET = 26 : *****
7 KEYS BUCKET = 15 : *****
8 KEYS BUCKET = 3 : ***
9 KEYS BUCKET = 2 : **
10 KEYS BUCKET = 1 : *
11 KEYS BUCKET = 0 :
12 KEYS BUCKET = 1 : *
13 KEYS BUCKET = 1 : *
14 KEYS BUCKET = 0 :
15 KEYS BUCKET = 1 : *
16 KEYS BUCKET = 0 :
17 KEYS BUCKET = 0 :
18 KEYS BUCKET = 0 :
19 KEYS BUCKET = 0 :
20 KEYS BUCKET = 0 :
21 KEYS BUCKET = 0 :
22 KEYS BUCKET = 0 :
23 KEYS BUCKET = 0 :
24 KEYS BUCKET = 0 :
25 KEYS BUCKET = 0 :
26 KEYS BUCKET = 0 :
27 KEYS BUCKET = 0 :
28 KEYS BUCKET = 0 :
29 KEYS BUCKET = 0 :
30 KEYS BUCKET = 0 :
31 KEYS BUCKET = 0 :
32 KEYS BUCKET = 0 :
33 KEYS BUCKET = 0 :
34 KEYS BUCKET = 0 :
35 KEYS BUCKET = 0 :
36 KEYS BUCKET = 0 :
37 KEYS BUCKET = 0 :
38 KEYS BUCKET = 0 :
39 KEYS BUCKET = 0 :
40 KEYS BUCKET = 0 :

OVER 40 KEYS BUCKET
= 0 :

-----< STATISTICS >-----

THE DIVISION HASH METHOD IS APPLIED TO

THE 1024 RANDOMLY CHOSEN NAMES DATA.

MEAN SQUARE DEVIATION : 5.77

0 KEYS BUCKET = 12 : *****
1 KEYS BUCKET = 24 : *****
2 KEYS BUCKET = 40 : *****
3 KEYS BUCKET = 41 : *****
4 KEYS BUCKET = 43 : *****
5 KEYS BUCKET = 33 : *****
6 KEYS BUCKET = 25 : *****
7 KEYS BUCKET = 17 : *****
8 KEYS BUCKET = 9 : *****
9 KEYS BUCKET = 6 : *****
10 KEYS BUCKET = 3 : ***
11 KEYS BUCKET = 2 : **
12 KEYS BUCKET = 0 :
13 KEYS BUCKET = 1 : +
14 KEYS BUCKET = 0 :
15 KEYS BUCKET = 0 :
16 KEYS BUCKET = 0 :
17 KEYS BUCKET = 0 :
18 KEYS BUCKET = 0 :
19 KEYS BUCKET = 0 :
20 KEYS BUCKET = 0 :
21 KEYS BUCKET = 0 :
22 KEYS BUCKET = 0 :
23 KEYS BUCKET = 0 :
24 KEYS BUCKET = 0 :
25 KEYS BUCKET = 0 :
26 KEYS BUCKET = 0 :
27 KEYS BUCKET = 0 :
28 KEYS BUCKET = 0 :
29 KEYS BUCKET = 0 :
30 KEYS BUCKET = 0 :
31 KEYS BUCKET = 0 :
32 KEYS BUCKET = 0 :
33 KEYS BUCKET = 0 :
34 KEYS BUCKET = 0 :
35 KEYS BUCKET = 0 :
36 KEYS BUCKET = 0 :
37 KEYS BUCKET = 0 :
38 KEYS BUCKET = 0 :
39 KEYS BUCKET = 0 :
40 KEYS BUCKET = 0 :

OVER 40 KEYS BUCKET
= 0 :

-----< STATISTICS >-----

THE DIVISION HASH METHOD IS APPLIED TO

THE 1024 RANDOMLY CHOSEN NAMES DATA.

MEAN SQUARE DEVIATION : 25.63

```
0 KEYS BUCKET = 129 : *****
*****
1 KEYS BUCKET = 3 : ***
2 KEYS BUCKET = 6 : *****
3 KEYS BUCKET = 9 : *****
4 KEYS BUCKET = 10 : *****
5 KEYS BUCKET = 12 : *****
6 KEYS BUCKET = 12 : *****
7 KEYS BUCKET = 11 : *****
8 KEYS BUCKET = 14 : *****
9 KEYS BUCKET = 8 : *****
10 KEYS BUCKET = 9 : *****
11 KEYS BUCKET = 7 : *****
12 KEYS BUCKET = 5 : *****
13 KEYS BUCKET = 7 : *****
14 KEYS BUCKET = 4 : ****
15 KEYS BUCKET = 2 : **
16 KEYS BUCKET = 4 : ****
17 KEYS BUCKET = 1 : *
18 KEYS BUCKET = 0 :
19 KEYS BUCKET = 1 : *
20 KEYS BUCKET = 0 :
21 KEYS BUCKET = 1 : *
22 KEYS BUCKET = 0 :
23 KEYS BUCKET = 0 :
24 KEYS BUCKET = 1 : *
25 KEYS BUCKET = 0 :
26 KEYS BUCKET = 0 :
27 KEYS BUCKET = 0 :
28 KEYS BUCKET = 0 :
29 KEYS BUCKET = 0 :
30 KEYS BUCKET = 0 :
31 KEYS BUCKET = 0 :
32 KEYS BUCKET = 0 :
33 KEYS BUCKET = 0 :
34 KEYS BUCKET = 0 :
35 KEYS BUCKET = 0 :
36 KEYS BUCKET = 0 :
37 KEYS BUCKET = 0 :
38 KEYS BUCKET = 0 :
39 KEYS BUCKET = 0 :
40 KEYS BUCKET = 0 :

OVER 40 KEYS BUCKET
= 0 :
```

-----< STATISTICS >-----

THE DIVISION HASH METHOD IS APPLIED TO
THE 1024 RANDOMLY CHOSEN NAMES DATA.

MEAN SQUARE DEVIATION : 25.63

0 KEYS BUCKET =129 : *****

1 KEYS BUCKET = 3 : ***
2 KEYS BUCKET = 6 : *****
3 KEYS BUCKET = 9 : *****
4 KEYS BUCKET = 10 : *****
5 KEYS BUCKET = 12 : *****
6 KEYS BUCKET = 12 : *****
7 KEYS BUCKET = 11 : *****
8 KEYS BUCKET = 14 : *****
9 KEYS BUCKET = 8 : *****
10 KEYS BUCKET = 9 : *****
11 KEYS BUCKET = 7 : *****
12 KEYS BUCKET = 5 : *****
13 KEYS BUCKET = 7 : *****
14 KEYS BUCKET = 4 : *****
15 KEYS BUCKET = 2 : **
16 KEYS BUCKET = 4 : *****
17 KEYS BUCKET = 1 : *
18 KEYS BUCKET = 0 :
19 KEYS BUCKET = 1 : *
20 KEYS BUCKET = 0 :
21 KEYS BUCKET = 1 : *
22 KEYS BUCKET = 0 :
23 KEYS BUCKET = 0 :
24 KEYS BUCKET = 1 : *
25 KEYS BUCKET = 0 :
26 KEYS BUCKET = 0 :
27 KEYS BUCKET = 0 :
28 KEYS BUCKET = 0 :
29 KEYS BUCKET = 0 :
30 KEYS BUCKET = 0 :
31 KEYS BUCKET = 0 :
32 KEYS BUCKET = 0 :
33 KEYS BUCKET = 0 :
34 KEYS BUCKET = 0 :
35 KEYS BUCKET = 0 :
36 KEYS BUCKET = 0 :
37 KEYS BUCKET = 0 :
38 KEYS BUCKET = 0 :
39 KEYS BUCKET = 0 :
40 KEYS BUCKET = 0 :

OVER 40 KEYS BUCKET
= 0 :

-----< STATISTICS >-----

THE DIVISION HASH METHOD IS APPLIED TO

THE 1024 RANDOMLY CHOSEN NAMES DATA.

MEAN SQUARE DEVIATION : 4.71

0 KEYS BUCKET = 3 : ***
1 KEYS BUCKET = 27 : *****
2 KEYS BUCKET = 41 : *****
3 KEYS BUCKET = 44 : *****
4 KEYS BUCKET = 38 : *****
5 KEYS BUCKET = 43 : *****
6 KEYS BUCKET = 31 : *****
7 KEYS BUCKET = 17 : *****
8 KEYS BUCKET = 6 : *****
9 KEYS BUCKET = 3 : ***
10 KEYS BUCKET = 2 : **
11 KEYS BUCKET = 0 :
12 KEYS BUCKET = 0 :
13 KEYS BUCKET = 0 :
14 KEYS BUCKET = 0 :
15 KEYS BUCKET = 0 :
16 KEYS BUCKET = 1 : *
17 KEYS BUCKET = 0 :
18 KEYS BUCKET = 0 :
19 KEYS BUCKET = 0 :
20 KEYS BUCKET = 0 :
21 KEYS BUCKET = 0 :
22 KEYS BUCKET = 0 :
23 KEYS BUCKET = 0 :
24 KEYS BUCKET = 0 :
25 KEYS BUCKET = 0 :
26 KEYS BUCKET = 0 :
27 KEYS BUCKET = 0 :
28 KEYS BUCKET = 0 :
29 KEYS BUCKET = 0 :
30 KEYS BUCKET = 0 :
31 KEYS BUCKET = 0 :
32 KEYS BUCKET = 0 :
33 KEYS BUCKET = 0 :
34 KEYS BUCKET = 0 :
35 KEYS BUCKET = 0 :
36 KEYS BUCKET = 0 :
37 KEYS BUCKET = 0 :
38 KEYS BUCKET = 0 :
39 KEYS BUCKET = 0 :
40 KEYS BUCKET = 0 :

OVER 40 KEYS BUCKET
= 0 :

-----< STATISTICS >-----

THE DIVISION HASH METHOD IS APPLIED TO

THE 1024 RANDOMLY CHOSEN NAMES DATA.

MEAN SQUARE DEVIATION : 5.67

```
0 KEYS BUCKET = 13 : *****
1 KEYS BUCKET = 24 : *****
2 KEYS BUCKET = 38 : *****
3 KEYS BUCKET = 39 : *****
4 KEYS BUCKET = 42 : *****
5 KEYS BUCKET = 37 : *****
6 KEYS BUCKET = 30 : *****
7 KEYS BUCKET = 12 : *****
8 KEYS BUCKET = 10 : *****
9 KEYS BUCKET = 5 : *****
10 KEYS BUCKET = 3 : ****
11 KEYS BUCKET = 2 : ***
12 KEYS BUCKET = 0 :
13 KEYS BUCKET = 1 :
14 KEYS BUCKET = 0 :
15 KEYS BUCKET = 0 :
16 KEYS BUCKET = 0 :
17 KEYS BUCKET = 0 :
18 KEYS BUCKET = 0 :
19 KEYS BUCKET = 0 :
20 KEYS BUCKET = 0 :
21 KEYS BUCKET = 0 :
22 KEYS BUCKET = 0 :
23 KEYS BUCKET = 0 :
24 KEYS BUCKET = 0 :
25 KEYS BUCKET = 0 :
26 KEYS BUCKET = 0 :
27 KEYS BUCKET = 0 :
28 KEYS BUCKET = 0 :
29 KEYS BUCKET = 0 :
30 KEYS BUCKET = 0 :
31 KEYS BUCKET = 0 :
32 KEYS BUCKET = 0 :
33 KEYS BUCKET = 0 :
34 KEYS BUCKET = 0 :
35 KEYS BUCKET = 0 :
36 KEYS BUCKET = 0 :
37 KEYS BUCKET = 0 :
38 KEYS BUCKET = 0 :
39 KEYS BUCKET = 0 :
40 KEYS BUCKET = 0 :
```

OVER 40 KEYS BUCKET
= 0 :

-----< STATISTICS >-----

THE DIVISION HASH METHOD IS APPLIED TO
THE 1024 RANDOMLY CHOSEN NAMES DATA.

MEAN SQUARE DEVIATION : 4.59

0 KEYS BUCKET = 2 : **
1 KEYS BUCKET = 25 : *****
2 KEYS BUCKET = 41 : *****
3 KEYS BUCKET = 47 : *****
4 KEYS BUCKET = 49 : *****
5 KEYS BUCKET = 36 : *****
6 KEYS BUCKET = 23 : *****
7 KEYS BUCKET = 18 : *****
8 KEYS BUCKET = 8 : *****
9 KEYS BUCKET = 2 : **
10 KEYS BUCKET = 3 : **
11 KEYS BUCKET = 1 : *
12 KEYS BUCKET = 0 :
13 KEYS BUCKET = 1 : *
14 KEYS BUCKET = 0 :
15 KEYS BUCKET = 0 :
16 KEYS BUCKET = 0 :
17 KEYS BUCKET = 0 :
18 KEYS BUCKET = 0 :
19 KEYS BUCKET = 0 :
20 KEYS BUCKET = 0 :
21 KEYS BUCKET = 0 :
22 KEYS BUCKET = 0 :
23 KEYS BUCKET = 0 :
24 KEYS BUCKET = 0 :
25 KEYS BUCKET = 0 :
26 KEYS BUCKET = 0 :
27 KEYS BUCKET = 0 :
28 KEYS BUCKET = 0 :
29 KEYS BUCKET = 0 :
30 KEYS BUCKET = 0 :
31 KEYS BUCKET = 0 :
32 KEYS BUCKET = 0 :
33 KEYS BUCKET = 0 :
34 KEYS BUCKET = 0 :
35 KEYS BUCKET = 0 :
36 KEYS BUCKET = 0 :
37 KEYS BUCKET = 0 :
38 KEYS BUCKET = 0 :
39 KEYS BUCKET = 0 :
40 KEYS BUCKET = 0 :

OVER 40 KEYS BUCKET
= 0 :

-----< STATISTICS >-----

THE DIVISION HASH METHOD IS APPLIED TO
THE 1024 RANDOMLY CHOSEN NAMES DATA.

MEAN SQUARE DEVIATION : 4.86

0 KEYS BUCKET = 5 : *****
1 KEYS BUCKET = 18 : ++++++
2 KEYS BUCKET = 44 : ++++++
3 KEYS BUCKET = 59 : ++++++
4 KEYS BUCKET = 38 : ++++++
5 KEYS BUCKET = 38 : ++++++
6 KEYS BUCKET = 19 : ++++++
7 KEYS BUCKET = 13 : ++++++
8 KEYS BUCKET = 11 : ++++++
9 KEYS BUCKET = 7 : ++++++
10 KEYS BUCKET = 2 : **
11 KEYS BUCKET = 1 : *
12 KEYS BUCKET = 1 : *
13 KEYS BUCKET = 0 :
14 KEYS BUCKET = 0 :
15 KEYS BUCKET = 0 :
16 KEYS BUCKET = 0 :
17 KEYS BUCKET = 0 :
18 KEYS BUCKET = 0 :
19 KEYS BUCKET = 0 :
20 KEYS BUCKET = 0 :
21 KEYS BUCKET = 0 :
22 KEYS BUCKET = 0 :
23 KEYS BUCKET = 0 :
24 KEYS BUCKET = 0 :
25 KEYS BUCKET = 0 :
26 KEYS BUCKET = 0 :
27 KEYS BUCKET = 0 :
28 KEYS BUCKET = 0 :
29 KEYS BUCKET = 0 :
30 KEYS BUCKET = 0 :
31 KEYS BUCKET = 0 :
32 KEYS BUCKET = 0 :
33 KEYS BUCKET = 0 :
34 KEYS BUCKET = 0 :
35 KEYS BUCKET = 0 :
36 KEYS BUCKET = 0 :
37 KEYS BUCKET = 0 :
38 KEYS BUCKET = 0 :
39 KEYS BUCKET = 0 :
40 KEYS BUCKET = 0 :

OVER 40 KEYS BUCKET
= 0 :

-----< STATISTICS >-----

THE DIVISION HASH METHOD IS APPLIED TO
THE 1024 NUMERIC STRINGS DATA.

MEAN SQUARE DEVIATION : 4.68

0 KEYS BUCKET = 6 : *****
1 KEYS BUCKET = 19 : *****
2 KEYS BUCKET = 33 : *****
3 KEYS BUCKET = 53 : *****
4 KEYS BUCKET = 55 : *****
5 KEYS BUCKET = 43 : *****
6 KEYS BUCKET = 21 : *****
7 KEYS BUCKET = 12 : *****
8 KEYS BUCKET = 6 : *****
9 KEYS BUCKET = 4 : *****
10 KEYS BUCKET = 0 :
11 KEYS BUCKET = 1 : *
12 KEYS BUCKET = 1 : *
13 KEYS BUCKET = 1 : *
14 KEYS BUCKET = 0 :
15 KEYS BUCKET = 1 : *
16 KEYS BUCKET = 0 :
17 KEYS BUCKET = 0 :
18 KEYS BUCKET = 0 :
19 KEYS BUCKET = 0 :
20 KEYS BUCKET = 0 :
21 KEYS BUCKET = 0 :
22 KEYS BUCKET = 0 :
23 KEYS BUCKET = 0 :
24 KEYS BUCKET = 0 :
25 KEYS BUCKET = 0 :
26 KEYS BUCKET = 0 :
27 KEYS BUCKET = 0 :
28 KEYS BUCKET = 0 :
29 KEYS BUCKET = 0 :
30 KEYS BUCKET = 0 :
31 KEYS BUCKET = 0 :
32 KEYS BUCKET = 0 :
33 KEYS BUCKET = 0 :
34 KEYS BUCKET = 0 :
35 KEYS BUCKET = 0 :
36 KEYS BUCKET = 0 :
37 KEYS BUCKET = 0 :
38 KEYS BUCKET = 0 :
39 KEYS BUCKET = 0 :
40 KEYS BUCKET = 0 :

OVER 40 KEYS BUCKET
= 0 :

-----< STATISTICS >-----

THE ALGEBRAIC CODING HASH METHOD IS APPLIED TO

THE 1024 RANDOMLY CHOSEN NAMES DATA.

MEAN SQUARE DEVIATION : 4.41

0 KEYS BUCKET = 5 : *****
1 KEYS BUCKET = 18 : *****
2 KEYS BUCKET = 41 : *****
3 KEYS BUCKET = 54 : *****
4 KEYS BUCKET = 48 : *****
5 KEYS BUCKET = 31 : *****
6 KEYS BUCKET = 26 : *****
7 KEYS BUCKET = 18 : *****
8 KEYS BUCKET = 6 : *****
9 KEYS BUCKET = 7 : *****
10 KEYS BUCKET = 1 : *
11 KEYS BUCKET = 0 :
12 KEYS BUCKET = 1 : *
13 KEYS BUCKET = 0 :
14 KEYS BUCKET = 0 :
15 KEYS BUCKET = 0 :
16 KEYS BUCKET = 0 :
17 KEYS BUCKET = 0 :
18 KEYS BUCKET = 0 :
19 KEYS BUCKET = 0 :
20 KEYS BUCKET = 0 :
21 KEYS BUCKET = 0 :
22 KEYS BUCKET = 0 :
23 KEYS BUCKET = 0 :
24 KEYS BUCKET = 0 :
25 KEYS BUCKET = 0 :
26 KEYS BUCKET = 0 :
27 KEYS BUCKET = 0 :
28 KEYS BUCKET = 0 :
29 KEYS BUCKET = 0 :
30 KEYS BUCKET = 0 :
31 KEYS BUCKET = 0 :
32 KEYS BUCKET = 0 :
33 KEYS BUCKET = 0 :
34 KEYS BUCKET = 0 :
35 KEYS BUCKET = 0 :
36 KEYS BUCKET = 0 :
37 KEYS BUCKET = 0 :
38 KEYS BUCKET = 0 :
39 KEYS BUCKET = 0 :
40 KEYS BUCKET = 0 :

OVER 40 KEYS BUCKET
= 0 :

-----< STATISTICS >-----

THE DIVISION HASH METHOD IS APPLIED TO
THE 1024 NUMERIC STRINGS DATA.

MEAN SQUARE DEVIATION : 107.82

Division 255

0 KEYS BUCKET = 205	:	*****
1 KEYS BUCKET = 3	:	***
2 KEYS BUCKET = 2	:	**
3 KEYS BUCKET = 4	:	****
4 KEYS BUCKET = 2	:	**
5 KEYS BUCKET = 0	:	
6 KEYS BUCKET = 2	:	**
7 KEYS BUCKET = 1	:	+
8 KEYS BUCKET = 1	:	+
9 KEYS BUCKET = 3	:	***
10 KEYS BUCKET = 2	:	**
11 KEYS BUCKET = 3	:	***
12 KEYS BUCKET = 0	:	
13 KEYS BUCKET = 1	:	*
14 KEYS BUCKET = 0	:	
15 KEYS BUCKET = 0	:	
16 KEYS BUCKET = 0	:	
17 KEYS BUCKET = 1	:	+
18 KEYS BUCKET = 1	:	+
19 KEYS BUCKET = 1	:	*
20 KEYS BUCKET = 0	:	
21 KEYS BUCKET = 0	:	
22 KEYS BUCKET = 1	:	+
23 KEYS BUCKET = 1	:	*
24 KEYS BUCKET = 1	:	+
25 KEYS BUCKET = 0	:	
26 KEYS BUCKET = 1	:	+
27 KEYS BUCKET = 1	:	+
28 KEYS BUCKET = 1	:	+
29 KEYS BUCKET = 2	:	**
30 KEYS BUCKET = 0	:	
31 KEYS BUCKET = 1	:	*
32 KEYS BUCKET = 0	:	
33 KEYS BUCKET = 3	:	***
34 KEYS BUCKET = 0	:	
35 KEYS BUCKET = 1	:	+
36 KEYS BUCKET = 2	:	**
37 KEYS BUCKET = 2	:	**
38 KEYS BUCKET = 0	:	
39 KEYS BUCKET = 0	:	
40 KEYS BUCKET = 1	:	+
OVER 40 KEYS BUCKET	:	
= 6	:	*****

-----< STATISTICS >-----

THE DIGIT ANALYSIS HASH METHOD IS APPLIED TO

THE 1024 NUMERIC STRINGS DATA.

EIGHT DIGITS ARE SELECTED FROM ONE WORD KEY.

MEAN SQUARE DEVIATION : 19.74

0 KEYS BUCKET = 128 : *****

1 KEYS BUCKET = 1 : *
2 KEYS BUCKET = 0 :
3 KEYS BUCKET = 4 : ****
4 KEYS BUCKET = 7 : *****
5 KEYS BUCKET = 10 : *****
6 KEYS BUCKET = 16 : *****
7 KEYS BUCKET = 21 : *****
8 KEYS BUCKET = 13 : *****
9 KEYS BUCKET = 23 : *****
10 KEYS BUCKET = 11 : *****
11 KEYS BUCKET = 10 : *****
12 KEYS BUCKET = 7 : *****
13 KEYS BUCKET = 1 : *
14 KEYS BUCKET = 1 : *
15 KEYS BUCKET = 0 :
16 KEYS BUCKET = 3 : ***
17 KEYS BUCKET = 0 :
18 KEYS BUCKET = 0 :
19 KEYS BUCKET = 0 :
20 KEYS BUCKET = 0 :
21 KEYS BUCKET = 0 :
22 KEYS BUCKET = 0 :
23 KEYS BUCKET = 0 :
24 KEYS BUCKET = 0 :
25 KEYS BUCKET = 0 :
26 KEYS BUCKET = 0 :
27 KEYS BUCKET = 0 :
28 KEYS BUCKET = 0 :
29 KEYS BUCKET = 0 :
30 KEYS BUCKET = 0 :
31 KEYS BUCKET = 0 :
32 KEYS BUCKET = 0 :
33 KEYS BUCKET = 0 :
34 KEYS BUCKET = 0 :
35 KEYS BUCKET = 0 :
36 KEYS BUCKET = 0 :
37 KEYS BUCKET = 0 :
38 KEYS BUCKET = 0 :
39 KEYS BUCKET = 0 :
40 KEYS BUCKET = 0 :

OVER 40 KEYS BUCKET
= 0 :