

Running Times

What are the running times for:

`insert`

Best:

Worst:

`find`

Best:

Worst:

`delete`

Best:

Worst:

10

Average Case

What about on average?

Let's **assume** that the keys are randomly distributed

What is the average running time if the size of the table *TableSize* and we've inserted n keys?

`insert`

`find`

`delete`

12

Some Possible Hash Functions

For each of these hash functions, think about

- what Strings will cause collisions
- how long it will take to evaluate

Keys: strings of form $s_0s_1 \dots s_{k-1}$ (s_i are chars in range $[0,256]$)

$$h(K) = s_0$$

$$h(K) = \sum_{i=0}^{k-1} s_i$$

21

Other Classes

Should we use that same hash function if the strings are all URLs?

23