

A random h() would do that but we need h() to be consistent/deterministic (same key -> same slot)

ASSUMPTION: SIMPLE UNIFORM HASHING

h() maps data uniformly like a random function ... even though h() is consistent / deterministic

Probability two given keys collide: m

Expected list size = $\frac{n}{m}$ = \propto = "load factor"

Expected time of search (and delete)

- i) Map to T: assume O(1) to evaluate h(). }
- 2) Scan list (on average, half a list) $\Theta(\alpha)$ great if $\alpha = O(1)$