

# Running Times

*The expected number of probes for find(key) under SUHA*

## Linear Probing:

- Successful:  $\frac{1}{2}(1 + \frac{1}{1-\alpha})$
- Unsuccessful:  $\frac{1}{2}(1 + \frac{1}{(1-\alpha)^2})$

## Double Hashing:

- Successful:  $\frac{1}{\alpha} * \ln(\frac{1}{1-\alpha})$
- Unsuccessful:  $\frac{1}{(1-\alpha)}$

