Running Times (Don't memorize these equations, no need.)

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

Linear Probing:

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

Double Hashing:

- Successful: $1/\alpha * ln(1/(1-\alpha))$
- Unsuccessful: $1/(1-\alpha)$

Separate Chaining:

- Successful: $1 + \alpha/2$
- Unsuccessful: $1 + \alpha$

Instead, observe:

- As α increases:

- If α is constant: