

Application 1:

$$\text{Load factor} = n/m$$

$$\# \text{ of buckets} = 1$$

$$\frac{n}{1} = \text{load factor for application 1} = n$$

Application 2:

$$\text{Load factor} = n/m$$

$$\# \text{ of buckets} = 1$$

$$\frac{n}{1} = \text{load factor for application 2} = n$$

Application 3:

$$\text{Load factor} = n/m$$

$$\# \text{ of buckets} = 5$$

$$\frac{n}{5} = \text{load factor for application 3}$$