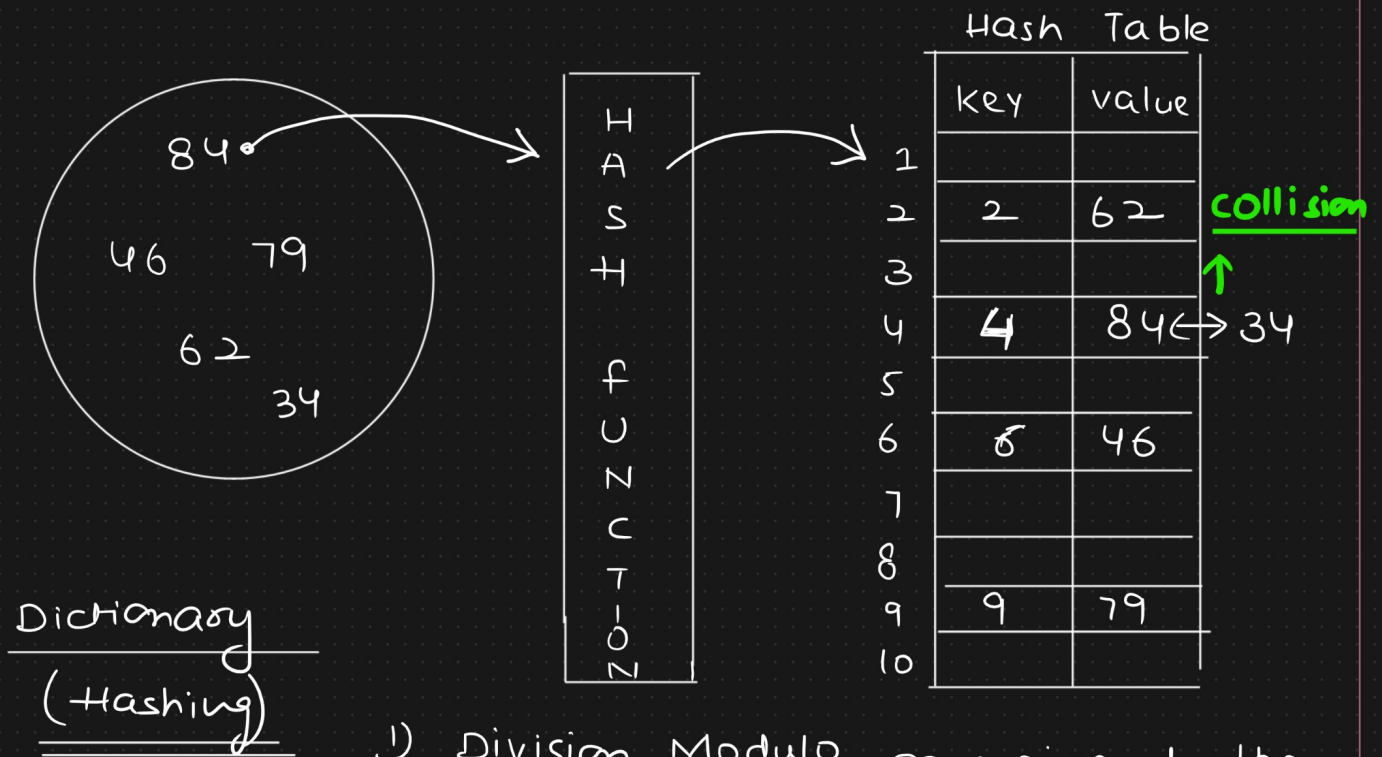


Different Types of Hash Function



1) Division Modulo $n \rightarrow$ size of the hash table

$$\text{val} \% n$$

$$84 \% 10 = \underline{4}$$

$$46 \% 10 = \underline{6}$$

2) Mid-square method

$$(326)^2 = \underline{106276}$$

$$n = 0 \text{ to } 999$$

62 \rightarrow key

3) Digit folding Method \rightarrow three digits at a time.

$$\underline{123} \underline{456} \underline{24} \rightarrow 123, 456, 24$$

$$\begin{aligned} \text{key} &= 123 + 456 + 24 \\ &= \underline{\underline{603}} \end{aligned}$$

↳ Less collisions

↳ Open addressing

↳ Chaining

↳ Uniform distribution of values

↳ Hash Table