

(2/10)



NATIONAL UNIVERSITY OF COMPUTER & EMERGING SCIENCES

LAHORE



Course Name & Section

AP
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Date 8/5/24

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Q1 72, 86, 71, 52, 53, 17

T1

Formula: $\text{key} \% \text{t-size}$

| | |
|---|------|
| 0 | 72 ✓ |
| 1 | 72 |
| 2 | 71 |
| 3 | |
| 4 | 53 |
| 5 | 52 |
| 6 | 71 |
| 7 | 86 |

X

which is better?

72 $\rightarrow 72 \% 7 \rightarrow 2 \rightarrow 1$
 86 $\rightarrow 86 \% 7 \rightarrow 1 \rightarrow 1$
 71 $\rightarrow 71 \% 7 \rightarrow 1 \rightarrow 1$
 Collision occurs.
 $x+1 \Rightarrow 2$

52 $\rightarrow 52 \% 7 \rightarrow 2$ Size = 8 \rightarrow 3rd index72 $\rightarrow 72 \% 8 \rightarrow 0$ 86 $\rightarrow 86 \% 8 \rightarrow 10 \rightarrow 2$ 71 $\rightarrow 71 \% 8 \rightarrow 8 \rightarrow 8-1 \rightarrow 7$ 52 $\rightarrow 52 \% 8 \rightarrow 6 \rightarrow 6-1 \rightarrow 5$ 53 $\rightarrow 53 \% 8 \rightarrow 6 \rightarrow 6-1 \rightarrow 5-1 \rightarrow 4$ 17 $\rightarrow 17 \% 8 \rightarrow 2 \rightarrow 2-1 \rightarrow 1$ 1 $\rightarrow 10 \rightarrow 2 \rightarrow 6$

...

Q2 Formula = reverse key % t-size