

STL → Standard Template Library

DS

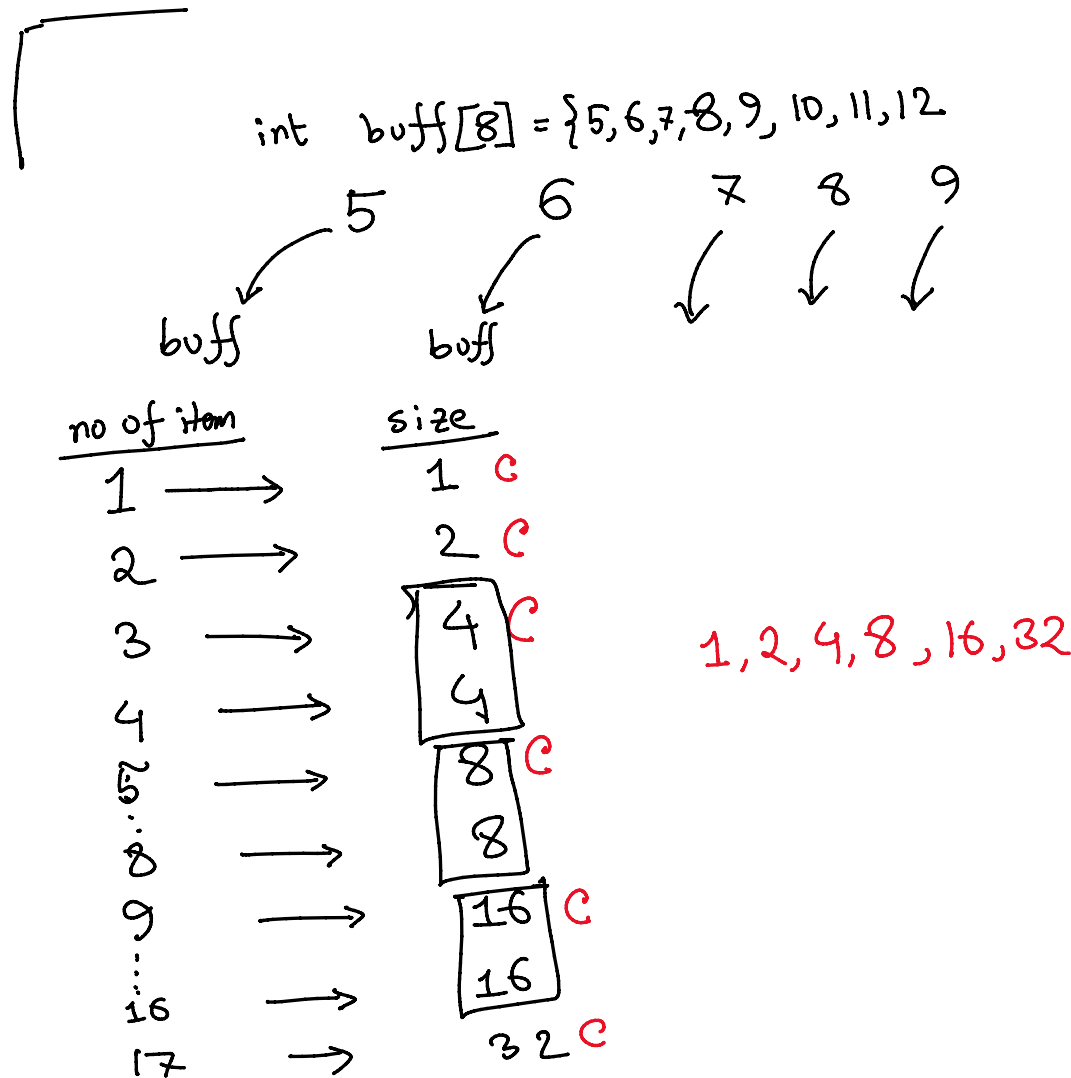
Stack

Queue

Set

Map

Heap



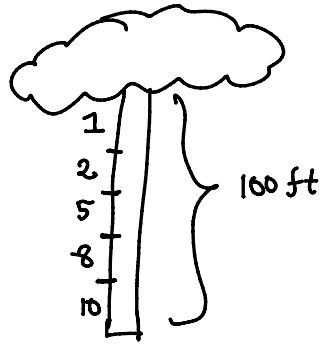
$$\left(\frac{N}{1}\right) + \frac{N}{2} + \frac{N}{4} + \frac{N}{8} + \dots + \left(\frac{N}{N}\right) = 2N$$

1

$$\frac{32}{1} + \frac{32}{2} + \frac{32}{4} + \frac{32}{8} + \frac{32}{16} + \frac{32}{32}$$

$$32 + 16 + 8 + 4 + 2 + 1 = 63$$

Amortized



$$10 + 8 + 5 + 2 + 1 = 26 D$$

$$26 D \rightarrow 100 \text{ ft}$$

$$\therefore 1 D \rightarrow \frac{100}{26} \approx 4 \text{ ft}$$