

- i) vector
- ii) set
- iii) map
- iv) unordered_set
- v) unordered_map
- vi) stack/queue
- etc.....

anti-pattern



int arr[2];

vc = {2}

vc = {2, 3}

vc = {2, 3, 4, -}

vc = {2, 3, 4, 5}

vc = {2, 3, 4, 5, 6, -, -, -}

$$\boxed{128} \rightarrow 255$$

$$2 + 4 + 8 + 16 + 32 + 64 + 128$$

$$\underbrace{\hspace{10em}}_{255}$$

2⁸ exec
≈ constant

set<int> st;

↳ insert(elem)

↳ remove(elem)

↳ search(elem)

↳ lower-bound/upper-bound()

N = number of elements
in set

} $O(\log_2 N)$

$$N = 10^6$$

$$\log_2 N = 20$$