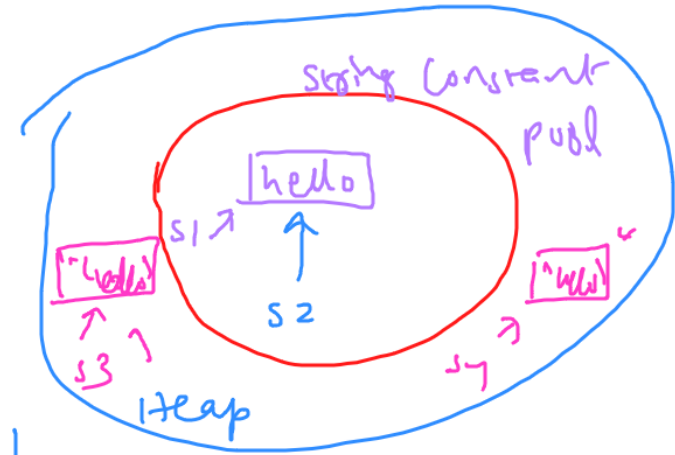


String s1 = "hello"; ✓

String s2 = "hello"; ✓

✓ String s3 = new String("hello");

✓ String s4 = new String("hello");



↓
s1 == s2 → true ✓

s3 == s4 → false

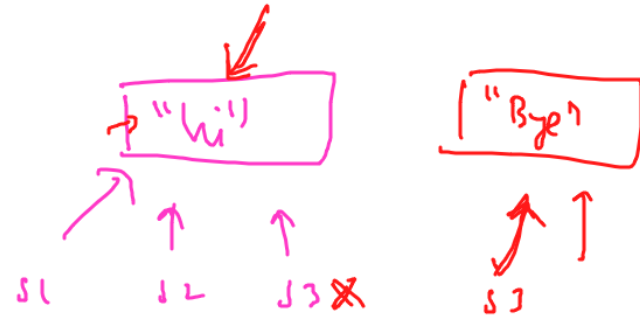
→ String Immutability :-

String s1 = "hi";

String s2 = "hi";

String s3 = "hi";

s3 = "Bye"; ←

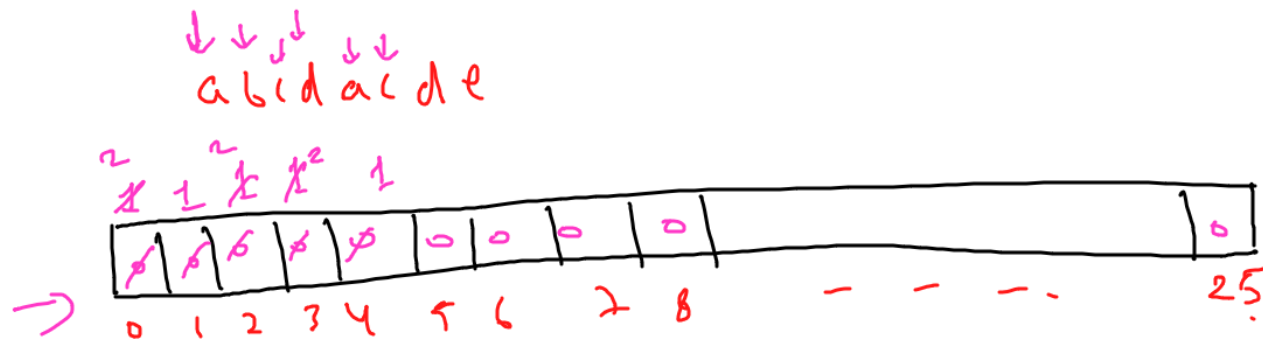


Problems :-

1. Frequency of each character of a string.
2. Find no. of unique characters in a string.
3. Check whether the string is Pangram.

"a quick brown fox jumps over the lazy dog"

Pangram \rightarrow string which contains all the alphabets



2 1 2 2 1

→

a → 2
b → 1
c → 2
d → 2
e → 1

a → 0
b → 1
c → 2
d → 3
e → 4
f → 5
i
z → 25

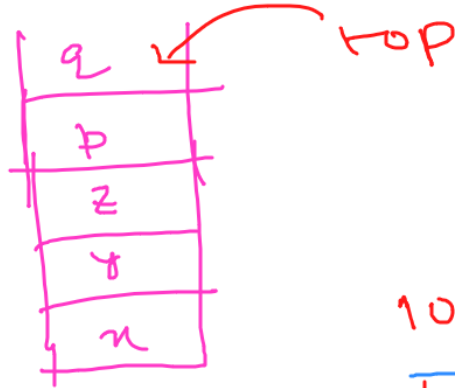
Stack & Queue
 ↓
 LIFO → FIFD

n, y, z, p, q

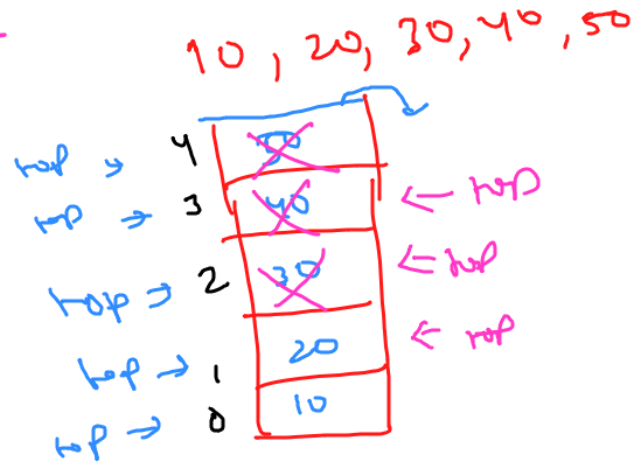
Insert → Push

Delete → pop

← ADT



pop
 ↓



top = 1/0/2
 top
 X Z 1

```
int stack[], top = -1, size;
int stack = new int[size];
```

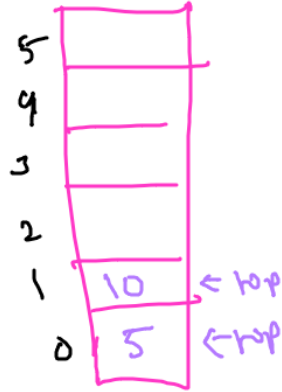
```
void push(int x)
{
```

```
    if (top == size - 1)
    {
        cout << "overflow";
        return;
    }
```

```
    top++;
    stack[top] = x;
}
```

```
stack[++top] = x;
```

3 = 2



top
= 0