

T.C of Binary Search

$$[10, 20, 30, 40, 50, 60, 70, 80], K=5$$

$$size = 8/4/2/1$$

$$\log_2(8) = 3$$

String: Set of characters

"your_string"

$$length() \Rightarrow \text{"Hello World"} = 11$$

$$charAt(2) \Rightarrow \text{"Hello World"} \Rightarrow 'l'$$

$$substring(1) \Rightarrow \text{"ello World"}$$

$$\text{String } a = \text{"Hi!"} // 1000$$

$$a = a + \text{"Krish"};$$

Consecutive Char:-

$$s = \text{"leetcode"}$$
<https://leetcode.com/problems/consecutive-characters/>

last = 'e'

count = 1

ans = 2

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

"abbccdddeeeedcba"

i = 1 2 3 4 5 6 7 8 9 10 11 12 13 14

last = a b c d e

count = 1 2 3 4 5

ans = 5

$$\text{Power}(s) \{$$

$$\text{ans} = 0; \text{last} = s.charAt(0);$$

$$\text{count} = 0;$$

$$\text{for}(i=1; i < s.length(); i++) \{$$

$$c = s.charAt(i);$$

$$\text{if}(s.charAt(i) == \text{last}) \{$$

$$\text{count}++;$$

}

- else {

$$\text{last} = s.charAt(i);$$

$$\text{count} = 1$$

```
{
    ans = max(count, ans);
}
```