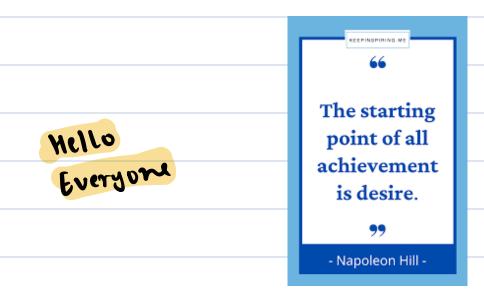
10 Amoys



Arrays: sequential collection of similar

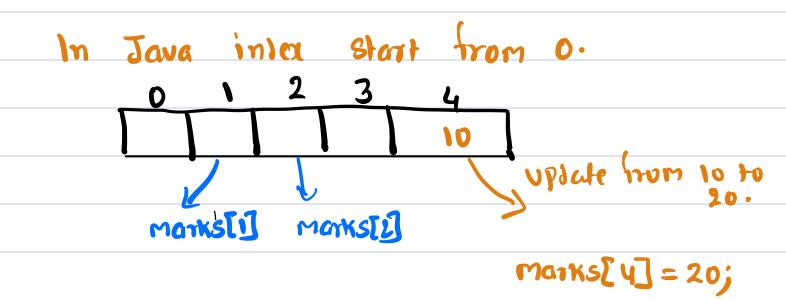
Eg. Books, Train, Movies etc.

Syntax of an array:

Jatatype [] cmay Name = new Jatatype [size]

int[] marks = new int[5];

V Size



$$9vi22:$$
 Sum of an array = $(3,4,1,5,1)$

```
(9.4) Univen on array as an imput, return
     the freq. of K in the arroy.
       input: [1,2,1,1,3,0,1,4,6]
      K=1 K=2 K=5
     ind trequency of K (intil arr, int K)
           int N = arriensthj
           int treq = 0;
           for (int i=0; ixn; itt)
          d
               if (arr[i] = = K)
                  treq++; // treq= treq+1;
```

```
9.5) Viven an array, return the treg. count of an array.
   || q_{YY} = [[1,1,2,1,3,4,2,1]]
    output=[4,4,2,4,1,1,2,4]
 intel frequen Count (intel an)
        int n = arr · length;
       int[] result = new inf[n];
       τυγ(int i=0; i<n; i+t)
     resultli] = frequencyOfk(arr, Grili]);
```

y return result,

$$|| q r r = [1,1,2,1,3,4,2,1]$$

$$|| q r r = [1,1,2,1,3,4,2,1]$$

$$i=0$$
 $arrol=1$ $requency of k(arr, 1) \Rightarrow 4$
 $i=1$ $arrol=1$ $requency of k(arr, 1) \Rightarrow 4$
 $i=2$ $arrol=2$ $requency of k(arr, 2) \Rightarrow 2$
 $i=3$ $arrol=3$ $req k(arr, 1) => 4$
 $i=4$ $arrol=3$ $req k(arr, 3) => 1$
 $i=5$ $arrol=2$ $req k(arr, 4) => 1$
 $i=6$ $arrol=2$ $req k(arr, 1) => 4$
 $i=6$ $arrol=1$ $req k(arr, 1) => 4$
 $i=8$ $\Rightarrow false$

9.7) Univen an integer array as an input, check whether it is strictly increasing.

Timput n=5 (3,4,4,5,7)Output! False

11 arr: 41, 2, 5, 8, 9 4 ovtput: True.

boolean is Increasing (integrate)

int N = car-length;for (int i=1; i< n; itt)

If (arrLi] L = car[i-1])

y return true;

Doubt session

Teloni idise

int N = arr. length;
intervency (ound (inter an)

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For lint
$$j=0$$
; $j < m$; $j + 1$)

If (search Ele = = $am(j)$)

Count ++;

Yesult $[i] = am(j)$

Yeturn result;

13,3,3,3,3,

25)	