Ques.

Increasing Order

Quizi.

4.mallet = 3 largest = 5

3, 4, 4, 4, 4, 4, 4, 5, 5, 5

// previous

<= current

Yes. it is in increasing order

Quiz 2 ->

No.

smallest → -5 largest -> -1

Duiz 3-

3, 4, 4, 4, 4, 4, 4, 5, 5, 5

not in Stoictly inc. order

Increaine order

Strictly increasing order

3, 3, 5, 9, 15, 21, 21

3, 5, 17, 24, 51

previous <= current

prev < current

Over. Given an array, return true of array is in Strictly increasing, order otherwise return false.

A = \frac{2}{3}, \frac{5}{19}, \frac{18}{2}, \frac{21}{3} \frac{3}{4} \text{false}

A = \frac{2}{3}, \frac{5}{5}, \frac{9}{9}, \frac{9}{15} \frac{3}{3} \text{false}

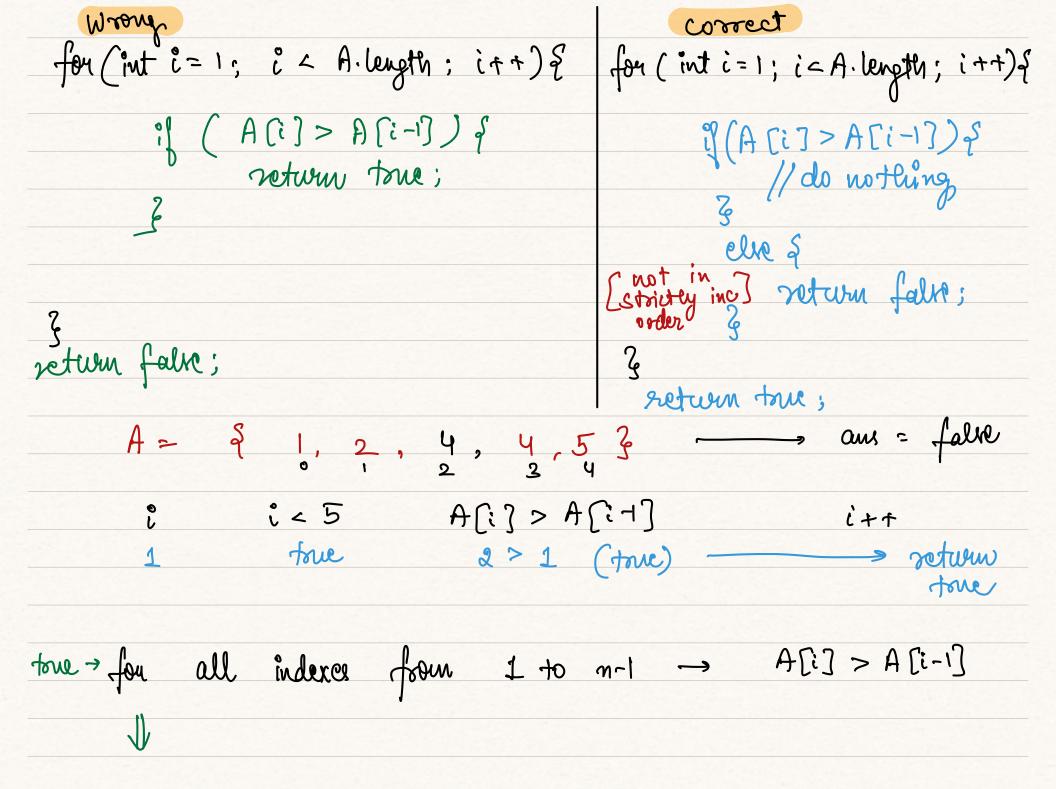
A = \frac{2}{3}, \frac{15}{5}, \frac{9}{9}, \frac{9}{3} \text{false}

poor index = 0 current index = 1

2
(i-1)

prev element = A [i-1]

current element - A[i]



If we find oven one index which is not following this condition, answer will be false cur > pre -> true cur < preu or cur == preu -> false § 3, 4, 9, 17, 16, 25 }

Pred curr

Curr < pred

Hence, one is false § 3, 5, 9, [15, 15], 175 poer curr == poer Hence, ans is falle

 $A = \begin{cases} 3, & 9, & 17, & 150 \end{cases}$ $i \quad i \leq 4 \quad A[i] \leq = A[i-1] \quad i+1$ 1 true $9 \leq = 3 \quad \text{false}$ 2 true $17 \leq = 9 \quad \text{false}$ 3 true $150 \leq = 17 \quad \text{false}$ 4

Homewook chek if given array is in Given an array containing each element exactly twice except one element.

1) count the frequency of clement 1) find the element with forequency = 1. count Freq (int[] A, int K) {
int count = 0; for (int i = 0; i < A. length; i++) { if (A[i] = = K) { Count ++; return count:

```
int Find Unique Element (int [7 A) &
             int an = 0;
        for (int i=0; i < A. length; i++) }
              int fueg = count Freq (A, A[i]);
               if (forg = = 1) of
                      ams = A[i];
                     break;
           return ans;
```

for (int i=0; i < A. length; i++) // count freq. of iter index element (A[i]) int count = 0; for (int j=0; jc A·length; j++) & if $(AC_j) = = A(i)$? count ++', if (count = = 1) & am = A[i]; break; neturn ans;

$$i = 0 \qquad A \left[0 \right] = 6$$

r

Given an array and a value to. Return true of there is any pair such that A[i] + A(j) == k (i!=j) otherwise Dues. greturn falle. i=2 j=3 K=10 A= 93,5,9,1,2,46 (9,1)town k = 7 (3,4) i=0 j=5 true (5.2) i=1, j=4 Approch 1-1 check all the pair (i,i) K= 17 false @ If (i!=j) then check whether sum of that pair is equal to ke or not K = 18 false

$$(1,0)$$
 \longrightarrow $A[1] + A[0] = 5+3 = 8$

$$(0,1)$$
 \longrightarrow $A[0] + A[1] = 3+5 = 8$

$$A[i] + A[j]$$
 $A[j] + A[i]$

$$A[i] + A[j] = = \kappa \qquad \xi \xi \qquad \left(i! = j\right)$$

```
Better approach ->
(0,0) (0,1) (0,2) (0,3)
                                                 1,2,3
(1,0) (1,1) (1,2) (1,3)
                                                 2,3
                                 [second]
(2,0) (2,1) (2,2) (2,3)
(3,0) (3,1) (3,2) (3.3)
                               \hat{i} = 0 \rightarrow (m-2) \qquad \hat{j} = (\hat{i}+1) \rightarrow (m-1)
       (i,j)
                     // checking only 6 pairs
         for (int i = 0; i < = A length - 2; i++) {
                for (int j = (i+1); j == A·length-1; j++) &
                             (A[i] + A[j] = = \kappa) \delta
                                 return true;
```

	Ů	-	A[i]+A[j]==9
$A = \{3, 5, 1, 4\}$	0 (0≤2)	19	2+5 ==9x
0 1 2 3		2 1	3+1 ==9 X
K=9		3 4	3+4 == 9x
(toue)		4 ×	
(78 WE)		break	
	1 (1 <= 2)	24	571==9 X
		31	5+4==9
			-> return
			frue

$$A = \begin{cases} 1, 9, 9, 9, 10, 21 \end{cases}$$
 $B = 9$
 $0 12345$
 $M() am = \begin{bmatrix} 1 & 3 \\ 0 & 1 \end{bmatrix}$

$$A = \begin{cases} 21, 9, 9, 9, 10, 21 \end{cases}$$
 $B = 9$

```
int last = 0
for (int i=0; i = A. length; i++) }
                                              last = 1
                                              Ost - 2
         if (A[i] = = B) f
 int [] am = new int [2];
     ans [0] = first:
      am [i] = lost;
 geturn ans;
```

int [] arr ? {0,2,4,1,3};

for (int i = 0; i = arr. leyth; i++)of

arr [i] = arr [arr [i]+3 / arr. length];

$$\begin{array}{cccc}
\frac{1}{0} & \frac{1}{2} & \frac{1}{3} & \frac{1}{$$

ar [1] = 1