Code - https://www.scaler.com/topics/java/online-java-compiler/? snippet_slug=72e0527a3550199d9180



Agenda

- (1) why arrays?

 (2) Array Bastes

 (3) Array Syntax

 (4) Indies Pri array

 (5) Anothors

Take E Portegers as Poput, print sum of all Portegers and store their respective value

ent a1, a2, a3, a4, a5;

Il take Propost from user

I add them and give result.

As Input stre Pricreases Pt te Prifeasible to mange those many variables

what are Arrays?

-> "Sequential" collection of "similar" data

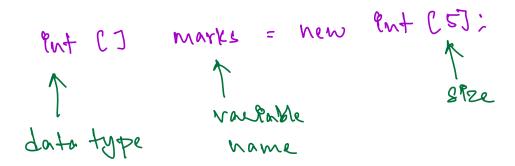
Real life examples

15 Train boggies 15 YT playlist

Syntax of Arrays

ent () marks = new ent (5);

Put marks [] = new Put [5];



	,		
Maaks =			

Indexting en Array

if we have n elements Pn array
the maximum index Cn-17

94) Given an integer array as import, cheek of K is present in the array.

Aux = (3, 8, 1, -10, 0) K = 8 (true) K = 3 (true) K = -1 (false)

boolean Andk (Port aucz, Port k) 2

Put n= are length:

for Unt 1=0; P<n; 9+4) &

et (are 28) == K) 2

return true;

Y

else E

return false;

V

case 1 \rightarrow ?nput = -1 \sim Case 2 \rightarrow ?nput = 3 \sim Case 3 \rightarrow ?nput = 8 \sim

We can only say an element is not present PF & Ps not there on entire away

boolean find k (fint auc), fint k) &

Fut n= au length;

for that ?=0; ?<n; ?++) &

| ef (aux??] == k) &

| return false;

q

And k (are, k) -> call find b

a) Given an Portager waary, and Porteger & Pond the frequency of K

are [1,2,1,1,3,0,2,1,2]

 $k=1 \rightarrow 4$ $k=2 \rightarrow 3$

Put fregk (Put ase CJ, Put K) 2

Put n = are. length;

Put freq = 0;

for (Put 1=0; (<n; 1++) &

return frequency;

M = [1, 2, 1, 1, 3, 0, 2, 1, 2] k = 1

0	° ~ ~	22 C 13 22 K	freq
0	0 < 9	(== 1 2 == 1	\
\	1 < 9 2 < 9	1 = = 1	2 5
2 3	3<9	1==1	3
4	4 < 9	8==1	3
5	5<9	2 = = 1	3
6	6 K9 7 K9	(== 1	4
7	8<9	2==1	4
D	929	ex ?	

A) Given an enteger away, return lets respective frequency away

> ans = [1, 2, 1, 1, 3, 0, 2, 1, 2]ans = [4, 3, 4, 4, 1, 1, 3, 4, 3]

Put C] freq Count (Put au CJ) &

Put u= ara. length;

Put CJ anc = new Put CnJ;

For (Put 1=0; P<n; 74+) &

ans Cio = fregk (arr, arreis);

Z

return ans;

<u>'</u>\

Qb) Given an integer array as input, these of it is strictly in creasing.

$$arr = Co, 2, 6, 9, 11]$$
 $arr = Co, 2, 2, 4, 5, 11, 13]$
 $arr = Co, -5, 7, 6, 11]$

for (1=0; 9< n; 9++) {

9f (ma (2) > = arree+1)) {

return folse;

y

Z

return true;

arr= (0, 2, 6,7)

of ich arreig >= arreiti of 2 = 2 proceed of 2 = 6 proceed of 2 = 7 proceed 2 = 4 2 = 4 3 = 6 proceed 4 = 7 proceed 4 = 7 Il this code will not work

for (1=0; (2n-1; 1++1) {

ef (ma (1) > = arrel+1)) {

return false;

y

return true;

Arr = (-3, -10, -1, -2, 0) Max = -3

-3 -2 -1 0

for cent i=0; ien; ett) q

et carreis > max) &

max = arreis;

3

J