

Problems on Array-1

Assignment Questions

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Q1 - Given an array sorted in increasing order of size n and an integer x, find if there exists a pair in the array whose absolute difference is exactly x. (n>1)

(Medium)

Input1:

N = 5

Arr[] = [5,10,15,20,26]

x= 10

Output1:

Yes

Input2:

N = 7

Arr[] = [1, 2, 3, 4, 5, 6, 7]

x= 0

Output2:

No

Q2 - Given an array of size n, find the total number of occurrences of given number x.

(Easy)

Input1:

n = 7

arr[] = [3, 5, 0, 7, 8, 3, 0]

x = 0

Output1:

2

Input2:

n = 6

arr[] = [1, 2, 0, 8, 6, 8]

x = 3

Output2:

0

Q3 - Given an array arr[] of size N-1 with integers in the range of [1, N], the task is to find the missing number from the first N integers. There are no duplicates in the list.

(Medium)

Input1:

n = 8

arr[] = {1, 2, 4, 6, 3, 7, 8}

Output1:

5

Input2:

n = 5

arr[] = {1, 2, 3, 5}

Output2:

4