

ASK/VIEW DOUBT

SOLUTION

HINT

Problem

Result

Check Max-Heap

Send Feedback

Given an array of integers, check whether it represents max-heap or not.

Return true or false.

**Input Format :**

Line 1 : An integer N i.e. size of the array  
Line 2 : N integers which are elements of the array, separated by spaces

**Output Format :**

true if it represents max-heap and false if it is not a max-heap

**Constraints :**  
1 <= N <= 10^5  
1 <= Ai <= 10^5

1

bool checkMaxHeap(int arr[], int n){

2

/\* Don't write main().

3

\* Don't read input, it is passed as function argument.

4

\* Taking input and printing output is handled automatically.

5

\*/

6

7

for(int i=0;i<n;i++){

8

int rc = i\*2+2;

9

int lc = i\*2+1;

10

if(lc<n){

11

if(rc<n && arr[i]<arr[rc] && arr[i]<arr[lc]){

12

return false;

13

}

14

if(arr[i]<arr[lc])

15

return false;

16

}

17

}

18

return true;

19

}

20

}

21

22

< PREVIOUS

> NEXT

CUSTOM INPUT

SUBMIT SOLUTION