**Min-Max**

Attempted by: **10581**

/

Accuracy: **90%**

/

Maximum Score: **10**

/

123 Votes

Tag(s):

Basic Programming, Very-Easy

**PROBLEM**

**EDITORIAL**

**MY SUBMISSIONS**

**ANALYTICS**

Given an array of integers . Check if all the numbers between minimum and maximum number in array exist's within the array .

Print **'YES'** if numbers exist otherwise print **'NO'**(without quotes).

**Input:**

Integer **N** denoting size of array

Next line contains **N** space separated integers denoting elements in array

**Output:**

Output your answer

**Constraints:**

1<= **N** <= 1000

1<= **a[i]** <= 100

**SAMPLE INPUT**

6

4 2 1 3 5 6

**SAMPLE OUTPUT**

YES

**Time Limit:**1.0 sec(s) for each input file.

**Memory Limit:**256 MB

**Source Limit:**1024 KB

**Marking Scheme:**Marks are awarded when all the testcases pass.

**Allowed Languages:**C, C++, C++14, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift, Swift-4.1, Visual Basic

#include <iostream>

using namespace std;

int main()

{

int n;

int a[1000];

int i,j,k,l,swap;

cin>>n;

for(k=0;k<n;k++)

{

cin>>a[k];

}

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

{

for(j=0;j<(n-i-1);j++)

{

if(a[j]>a[j+1])

{

swap=a[j];

a[j]=a[j+1];

a[j+1]=swap;

}

}

} int small=a[0];

int great=a[n-1];

int temp=small;

int count=0;

for(l=0;l<n;l++)

{

if(temp==a[l])

{

count++;

temp++;

}

}

if(count==(great-small+1))

cout<<"YES";

else

cout<<"NO";

return 0;

}