//given an array and we need to check whether it is sorted or not

#include <iostream>

using namespace std;

bool issorted(int a[],int n)

{

if(n==1)

return true;

if(a[0]<a[1] && issorted(a+1,n-1))

return true;

return false;

}

int main()

{

int n;

cin>>n;

int a[n];

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

cin>>a[i];

cout<<issorted(a,n);

}