import java.util.\*;

// import java.util.\*;

class MyClass {

static int search(int arr[],int target){

int start=0;

int end=arr.length-1;

boolean asc=true;

if(arr[start]>arr[end])

asc=false;

while(start<=end){

int mid=(start+end)/2; //in order to find the mid element again and again till start<=end, we are putting this condition inside the loop.

if(asc){

if(arr[mid]==target)

return mid;

else if(arr[mid]>target)

end=mid-1;

else

start=mid+1;

}

else{

if(arr[mid]==target)

return mid;

else if(arr[mid]>target)

start=mid+1;

else

end=mid-1;

}

}

return -1;

}

public static void main(String args[]) {

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int[]arr=new int[n];

for(int i=0;i<arr.length;i++)

arr[i]=sc.nextInt();

int[]arr2={23,20,18,16,14};

// {1,2,3,4,5,6,7,8,9};

int x=4;

int y=14;

System.out.println(search(arr,x));

System.out.println(search(arr2,y));

}

}