import java.util.Scanner;

public class Find\_Minimum\_in\_Rotated\_Sorted\_Array\_2 {

public static int findMin(int[] nums) {

int i=0;

int j=nums.length-1;

while(i<=j){

while(nums[i]==nums[j] && i!=j){

i++;

}

if(nums[i]<=nums[j]){

return nums[i];

}

int m=(i+j)/2;

if(nums[m]>=nums[i]){

i=m+1;

}else{

j=m;

}

}

System.out.println(-1);

return -1;

}

public static void main(String [] args){

Scanner s = new Scanner(System.in);

System.out.println("Enter the length of the array:");

int length = s.nextInt();

int [] myArray = new int[length];

System.out.println("Enter the elements of the array:");

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

myArray[i] = s.nextInt();

}

findMin(myArray);

}

}