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Gaming Array

by ma5termind

Problem

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Andy loves playing games. He wants to play a game with his little brother, Bob, using an array, A , of n distinct integers. The rules are as follows:

- Bob always plays first and the two players move in alternating turns.
- In a single move, a player chooses the maximum element currently present in the array and removes it as well as all the other elements to its right. For example, if $A = [2, 3, 5, 4, 1]$, then it becomes $A = [2, 3]$ after the first move because we remove the maximum element (i.e., 5) and all elements to its right (i.e., 4 and 1).
- The modifications made to the array during each turn are permanent, so the next player continues the game with the remaining array. The first player who is unable to make a move loses the game.

Andy and Bob play g games. Given the initial array for each game, can you find and print the name of the winner on a new line? If Andy wins, print ANDY; if Bob wins, print BOB.

Input Format

The first line contains a single integer denoting g (the number of games). The $2 \cdot g$ subsequent lines describe each game array over two lines:

1. The first line contains a single integer, n , denoting the number of elements in A .
2. The second line contains n distinct space-separated integers describing the respective values of a_0, a_1, \dots, a_{n-1} for array A .

Constraints

- Array A contains n distinct integers.

For 35% of the maximum score:

- $1 \leq g \leq 10$
- $1 \leq n \leq 1000$
- $1 \leq a_i \leq 10^5$
- The sum of n over all games does not exceed 1000.

For 100% of the maximum score:

- $1 \leq g \leq 100$
- $1 \leq n \leq 10^5$
- $1 \leq a_i \leq 10^9$
- The sum of n over all games does not exceed 10^5 .

Output Format

For each game, print the name of the winner on a new line (i.e., either BOB or ANDY).

Sample Input 0

```
2
5
5 2 6 3 4
2
3 1
```

Sample Output 0

```
ANDY
BOB
```

Explanation 0

Andy and Bob play the following two games:

- Initially, the array looks like this:

5	2	6	3	4
---	---	---	---	---

In the first move, Bob removes **6** and all the elements to its right, resulting in $A = [5, 2]$:

5	2	6	3	4
---	---	---	---	---

In the second move, Andy removes **5** and all the elements to its right, resulting in $A = []$:

5	2	6	3	4
---	---	---	---	---

At this point, the array is empty and Bob cannot make any more moves. This means Andy wins, so we print ANDY on a new line.

- In the first move, Bob removes **3** and all the elements to its right, resulting in $A = []$. As there are no elements left in the array for Andy to make a move, Bob wins and we print BOB on a new line.

f t in

Submissions: 375

Max Score: 35

Difficulty: Medium

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Current Buffer (saved locally, editable)

C#

```
1 using System;
2 using System.Collections.Generic;
3 using System.IO;
4 using System.Linq;
5 class Solution {
6
7     static void Main(String[] args) {
8         int g = int.Parse(Console.ReadLine());
9
10        while (g-- > 0)
11        {
12            int n = int.Parse(Console.ReadLine());
13            int[] a = Array.ConvertAll(Console.ReadLine().Split(' '), e => int.Parse(e));
14
15            int max = 0, cant_maximos = 0;
16
17            for (int i = 0; i < n; i++)
18            {
19                if (a[i] > max)
20                {
```

```
21         max = a[i];
22         cant_maximos++;
23     }
24 }
25
26 if (cant_maximos % 2 == 0)
27 {
28     Console.WriteLine("ANDY");
29 }
30
31 else
32 {
33     Console.WriteLine("BOB");
34 }
35 }
36 }
37 }
38 }
```

Line: 1 Col: 1

 [Upload Code as File](#)☐ Test against custom input[Run Code](#)[Submit Code](#)

Congrats, you solved this challenge!

✓ Test Case #0
✓ Test Case #3
✓ Test Case #6
✓ Test Case #9
✓ Test Case #12
✓ Test Case #15
✓ Test Case #18

✓ Test Case #1
✓ Test Case #4
✓ Test Case #7
✓ Test Case #10
✓ Test Case #13
✓ Test Case #16
✓ Test Case #19

✓ Test Case #2
✓ Test Case #5
✓ Test Case #8
✓ Test Case #11
✓ Test Case #14
✓ Test Case #17
✓ Test Case #20

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