

周五夜间参加CodeForces比赛做出2题，九千多名，仍然是新手(Newbie)。

9839 LittleBeetroot 1133 488 645 -5

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

Problems

#	Name	standard input/output	Time limit per test	Memory limit per test	Author
A	Circle of Apple Trees	1 s, 256 MB	1 second	256 megabytes	x20318
B	Bitwise Reversion	1.5 s, 256 MB	1.5 seconds	256 megabytes	x17938
C	Symmetrical Polygons	2 s, 256 MB	2 seconds	256 megabytes	x8306
D	Not Alone	2 s, 256 MB	2 seconds	256 megabytes	x3882
E	Zero Trailing Factorial	3 s, 512 MB	3 seconds	512 megabytes	x550
F	Odd Queries on Odd Array	10 s, 1024 MB	10 seconds	1024 megabytes	x102

[Complete problems](#)

Codeforces Round 1057 (Div. 2)

Finished

Practice

Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for contests. If you've seen these problems before, it's recommended to solve them again. If you just want to solve some problem from a contest, a virtual contest is not for you - you can solve it directly. If you want to compare your solution with other person during a virtual contest:

Codeforces Hot News!

Wow! Coder LittleBeetroot competed in Codeforces Round 1057 (Div. 2) and gained +219 rating points taking place 9311

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A. Circle of Apple Trees

time limit per test: 1 second
memory limit per test: 256 megabytes

There are apple trees arranged in a circle. Each tree bears exactly one apple, and the beauty of the apple on the i -th tree is given by b_i for all $1 \leq i \leq n$. You start in front of tree 1.

At each tree, you may choose either eat the apple or skip it. After making your choice, you move to the next tree: from tree i , you move to tree $i+1$ for $1 \leq i \leq n-1$, and from tree n , you move back to tree 1. This process continues indefinitely as you move through the trees in a cycle.

However, there is a special condition: you may only eat an apple if its beauty is strictly greater than the beauty of the last apple you ate. For example, if $b = [2, 1, 2, 3]$ and you eat the apple on tree 1 (beauty 2), you cannot eat the apples on trees 2 and 3 because their beauties are not greater than 2. However, you may eat the apple on tree 4 since $b_4 = 3 > 2$.

Note that you are allowed to skip an apple when you first encounter it, and you can choose to eat it later on a subsequent cycle.

Your task is to determine the maximum number of apples you can eat if you make optimal decisions on when to eat or skip each apple.

Input

Each test contains multiple test cases. The first line contains the number of test cases t ($1 \leq t \leq 500$). The description of the test cases follows.

The first line of each test case contains a single integer n ($1 \leq n \leq 100$) — the number of apple trees.

The second line of each test case contains n integers b_1, b_2, \dots, b_n ($1 \leq b_i \leq n$) — the beauty of the apples on the trees.

Note that there are no constraints on the sum of n over all test cases.

Output

For each test case, output a single integer representing the maximum number of apples you can eat.

Example

Input

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

Output

```
3
5
5
```

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B. Bitwise Reversion

time limit per test: 1.5 seconds
memory limit per test: 256 megabytes

You are given three non-negative integers x , y and z . Determine whether there exist three non-negative integers a , b & c satisfying the following three conditions:

- $a \& b = x$
- $a \& c = y$
- $b \& c = z$

where $\&$ denotes the bitwise AND operation.

Input

Each test contains multiple test cases. The first line contains the number of test cases t ($1 \leq t \leq 10^4$). The description of the test cases follows.

The first and only line of each test case contains three integers x , y and z ($0 \leq x, y, z \leq 10^9$) — the target values of $a \& b$, $a \& c$ & $b \& c$, respectively.

Output

For each test case, output "YES" if there exists three non-negative integers a , b & c satisfying the above conditions, and "NO" otherwise.

You can output the answer in any case (upper or lower). For example, the strings "Yes", "yes", "YeS", and "YES" will be recognized as positive responses.

Codeforces Round 1057 (Div. 2)

Submitted

PyPy 3.10 (7.3.15, 4846) Accepted

Clone Contest to Mashup

You can clone this contest to a mashup.

Submit

Language: PyPy 3.10 (7.3.15, 4846) Choose file ... Submit

Last submissions

Submission Time Verdict

34293029 Oct/10/2025 Accepted

Problem tags

General

Author Problem Lang Verdict Time Memory Sent Judged

34293029 LittleBeetroot 2153A - 15 PyPy 3-64 Accepted 108 ms 3012 KB 2025-10-10 20:05:39 20:41:34

Source

```
1: int(input())
2: for i in range(1):
3:     n = int(input())
4:     ps = [list(map(int, input().split()))]
5:     for j in range(n):
6:         if j < n:
7:             if j < n:
8:                 ps.append(j)
9: print(*ps)
```

Click to see test details