

Problem 121: I See Three

Difficulty: Medium

Author: Shelly Adamie, Fort Worth, Texas, United States

Originally Published: Code Quest Australia 2019

Problem Background

Counting to three is easy; you don't need a computer to do it. Nonetheless, computers are excellent counters, and can process data much faster than we can, so when faced with a giant pile of data, it's ok to let the computer handle the "easy work."



Problem Description

Your program will be provided with a list of numbers, and must determine if the list contains a triplet. A triplet is a number that appears exactly three times within the list (not necessarily in a row). A number that appears only twice doesn't count, nor one that appears four times.

Sample Input

The first line of your program's input, received from the standard input channel, will contain a positive integer representing the number of test cases. Each test case will include a line containing several positive integers separated by spaces.

```
4
1 2 3 4 5 1 7 8 1 6
11 34 56 11 12 94 67
22 33 44 22 99 22 32
98 1 34 5 98 3 89 5
```

Sample Output

For each test case, your program must print the word "TRUE" if the list of numbers contained at least one triplet, or "FALSE" if the list did not contain any triplets. Each test case should be printed on a separate line.

```
TRUE
FALSE
TRUE
FALSE
```