Constructing a Number 🖰

Problem

Leaderboard Submissions

Discussions

Editorial 🖰

Manipulating numbers is at the core of a programmer's job. To test how well you know their properties, you are asked to solve the following problem.

You are given n non-negative integers $a_1, a_2, ..., a_n$. You want to know whether it's possible to construct a new integer using all the digits of these numbers such that it would be divisible by $\bf 3$. You can reorder the digits as you want. The resulting number

For example, consider the numbers 50,40,90 from which you have to construct a new integer as described above. Numerous arrangements of digits are possible; but we have illustrated one below.

Input array = [50, 40, 90]



 $Complete the function \verb| canConstruct| which takes an integer array as input and return "Yes" or "No" based on whether or not the function of the function o$ the required integer can be formed.

Input Format

The first line contains a single integer t denoting the number of queries. The following lines describe the queries.

Each query is described in two lines. The first of these lines contains a single integer n. The second contains n space-separated integers a_1 , a_2 , ..., a_n .

Constraints

- $1 \le t \le 100$
- $1 \le n \le 100$
- $1 \le a_i \le 10^9$

Subtasks

For 33.33% of the total score:

- n = 1
- $1 \le a_1 \le 10^6$

For each query, print a single line containing "Yes" if it's possible to construct such integer and "No" otherwise.

Sample Input 0



Sample Output 0

Yes Yes No

Explanation 0

In the first example, 9 is divisible by 3, so the answer is "Yes".

In the second example you can construct the number 005490 which is divisible by 3, so the answer is "Yes". Note that there may be other numbers you can construct, some of which are shown in the challenge statement.

In the third example, the only possible numbers are 14 and 41, but both of them are not divisible by 3, so the answer is "No".

Author	qoo2p5
Difficulty	Easy
Max Score	15
Submitted By	3128

NEED HELP?

View discussions

☐ View editorial

View top submissions

RATE THIS CHALLENGE



MORE DETAILS

Download problem statement









```
Change Theme Java 7
     import java.io.*;
     import java.math.*;
    import java.security.*;
import java.text.*;
  5
    import java.util.*;
     import java.util.concurrent.*;
    import java.util.regex.*;
 9 ∃ public class Solution {
 10
         // Complete the canConstruct function below.
 12 ⊟
         static String canConstruct(int[] a) {
            // Return "Yes" or "No" denoting whether you can construct the required number.
 14
         private static final Scanner scanner = new Scanner(System.in);
 18
 19 ⊟
         public static void main(String[] args) throws IOException {
 20
            BufferedWriter bufferedWriter = new BufferedWriter(new FileWriter(System.getenv
                                                                              Line: 1 Col: 1
Submit Code
                                                                Run Code
```

Contest Calendar | Blog | Scoring | Environment | FAQ | About Us | Support | Careers | Terms Of Service | Privacy Policy | Request a Feature