**Form a number divisible by 3 using array digits**

Submissions: [896](https://practice.geeksforgeeks.org/problem_submissions.php?pid=2927)  Accuracy:

59.78%

   Difficulty: [Easy](https://practice.geeksforgeeks.org/Easy/0/0/)   Marks: 2

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Given an array of integers, the task is to find whether it’s possible to construct an integer using all the digits of these numbers such that it would be divisible by 3. If it is possible then print “1” and if not print “0”.

**INPUT:**The first line consists of an integer **T** i.e. the number of test cases. First line of each test case consists of an integer**n.**Next line consists of n spaced integers.

**OUTPUT:**Print '1' if it is possible to form a number divisible by 3 using the array elements otherwise print '0'.

**CONSTRAINTS:**

1<=T<=100  
1<=n,a[i]<=105

**EXAMPLES:  
INPUT :**  
2  
3  
40 50 90  
2  
1 4

**OUTPUT :**   
1  
0

**EXPLANATION :**

Input : arr[] = {40, 50, 90}

Output : Yes

We can construct a number which is

divisible by 3, for example 945000.

So the answer is Yes.

Input : arr[] = {1, 4}

Output : No

The only possible numbers are 14 and 41,

but both of them are not divisible by 3,

so the answer is No.

\*\* For More Input/Output Examples Use ['Expected Output'](https://practice.geeksforgeeks.org/problems/form-a-number-divisible-by-3-using-array-digits/0/?ref=self#ExpectOP) option \*\*

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<https://practice.geeksforgeeks.org/problems/form-a-number-divisible-by-3-using-array-digits/0/?ref=self>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{

class Program

{

static int DivisiblePor3(int[] arr)

{

int sum = 0;

for(int i =0; i<arr.Length; i++)

{

sum += arr[i].ToString().Sum(e => e - '0');

}

return sum % 3 == 0 ? 1 : 0;

}

static void Main(string[] args)

{

//int[] arr = { 40, 50, 90 };

//Console.WriteLine(DivisiblePor3(arr));

int t = int.Parse(Console.ReadLine());

while(t-- > 0)

{

int n = int.Parse(Console.ReadLine());

int[] arr = Array.ConvertAll(Console.ReadLine().Trim().Split(' '), e => int.Parse(e));

Console.WriteLine(DivisiblePor3(arr));

}

Console.ReadLine();

}

}

}