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Factor Of 3 Codevita 9 Solution

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Factor Of 3 Codevita 9 Solution

Problem Description

Given an array arr, of size N, find whether it is possible to rearrange the elements of array such that sum of no two adjacent elements is divisible by 3.

Constraints

Home

1 <= T <= 10

2 <= N <= 10^5

1 <= arr[i] <= 10^5

Input

First line contains integer T denoting the number of testcases.

Each test cases consists of 2 lines as follows-

First line contains integer N denoting the size of the array.

Second line contains N space separated integers.

Output

For each test case print either ""Yes"" or ""No"" (without quotes) on new line.

Time Limit

1

Examples

Example 1

Input

1

4

1233

Output

Yes

Explanation

Some of the rearrangements can be $\{2,1,3,3\}, \{3,3,1,2\}, \{2,3,3,1\}, \{1,3,3,2\},...$

We can see that there exist at least 1 combination $\{3,2,3,1\}$ where sum of 2 adjacent number is not divisible by 3. Other combinations can be $\{1,3,2,3\}$, $\{2,3,1,3\}$.

Hence the output is Yes.

Example 2

Input

1

4

3619

Output

No

Explanation

All possible combination of {3,6,1,9} are

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 $\{1,3,6,9\}, \{1,3,9,6\}, \{1,6,9,3\}, \{1,6,3,9\}, \{1,9,3,6\}, \{1,9,6,3\},$ {6,1,3,9}, {6,1, 9,3}, {6,3,1,9}, {6,3,9,1}, {6,9,1,3}, {6,9,3,1}, {3,1,6,9}, {3,1,9,6}, {3,9,1,6}, {3,9,6,1}, {3,6,1,9}, {3,6,9,1}, {9,1,3,6}, {9,1,6,3}, {9,3,1,6}, {9,3,6,1}, {9,6,1,3}, {9,6,3,1}. Since none of these combinations satisfy the condition, the output is No." "2020/08/15 6:18:42 AM AST", "Binary of 3"," Problem Description Mr. Binary is lost and wants to be found but the problem is he understands only binary. His house is located at a maximum binary equivalence possible, from the given set of numbers. A set is a binary equivalence if the number of 0 zeros and ones from a set of number are equal. Constraints 1 <= N <= 20 $1 \leftarrow Arr[i] \leftarrow 10^5$, where Arr[i] is the ith element in the set of N numbers in second line of input Arr[i] will be unique First line contains N denoting the number of decimal numbers Next line contains N space separated decimal numbers Output Single line output printing possible binary equivalence where number of digits in this number is equal to number of bits present in the largest element in second line of input. If there is no set which has binary equivalence then return 0 padded to number of bits present in the largest element in second line of input. Time Limit Examples Example 1 Input 3 2710 Output 0011 Explanation 2 -> 0010 - 1's = 1, 0's = 3 7 -> 0111 - 1's = 3, 0's = 1 10 -> 1010 - 1's = 2, 0's = 2 Here we have taken up to 4 bits because the maximum number is 10 which needs 4 bits to be represented in binary. The number of zeroes and ones across the set is, 6 each. Hence, the set of [2,7,10] has binary equivalence. Similarly, if you consider set[2,7], it also has binary equivalence, 4 each. But set [7,10] does not have binary equivalence. Likewise, set[10] has binary equivalence of 2 each. Total number of unique sets where binary equivalence is possible from all combinations are 3 viz. Sets are [2,7,10], [2,7] and [10] which is the final answer. But as Mr. Binary only understands zeroes and ones, return the binary of 3. Since 10 is the largest element in the input on line 2, the number of bits required to represent 10 in binary is 4. Hence output needs to be padded upto 4 digits. Since binary of 3 represented as a 4-digit number is 0011, the answer is 0011 Note Do not consider empty subset Example 2

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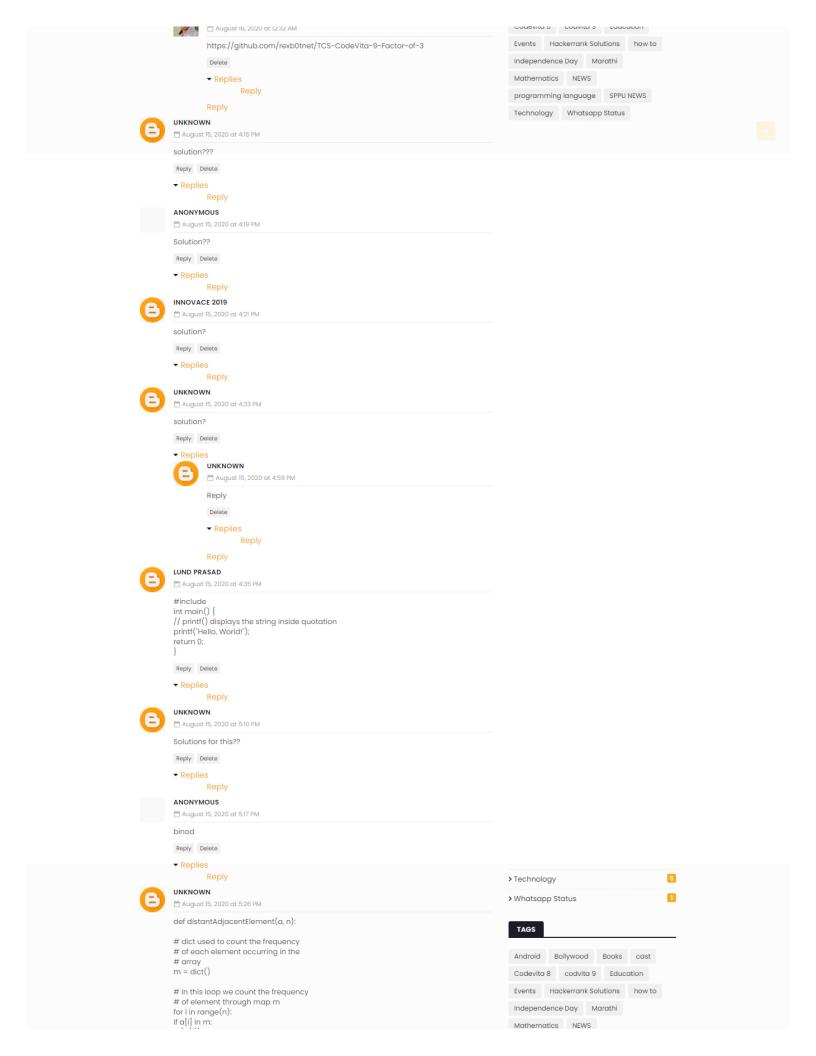
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Input

Output Explanation 7 -> 111 - 1's = 3, 0's = 1 Since there is only one element in the set and it also does not have binary equivalence, the answer is 0. However, keeping output specifications in mind, the answer should be printed as 000 since the highest element in second line of input viz. 7 has 3 bits when represented in binary format." "2020/08/15 6:20:06 AM AST", "3 Palindrome", "Problem Description Given an input string word, split the string into exactly 3 palindromic substrings. Working from left to right, choose the smallest split for the first substring that still allows the remaining word to be split into 2 palindromes. Similarly, choose the smallest second palindromic substring that leaves a third palindromic substring. If there is no way to split the word into exactly three palindromic substrings, print "Impossible" (without quotes). Every character of the string needs to be consumed. Cases not allowed -After finding 3 palindromes using above instructions, if any character of the original string remains unconsumed. No character may be shared in forming 3 palindromes. Constraints 1 <= the length of input sting <= 1000 Input First line contains the input string consisting of characters between [a-z]. Output Print 3 substrings one on each line. Time Limit Examples Example 1 Input nayannamantenet Output nayan naman tenet Explanation The original string can be split into 3 palindromes as mentioned in the output. However, if the input was nayanamantenet, then the answer would be ""Impossible"". Example 2 Input aaaaa Output a aaa Explanation The other ways to split the given string into 3 palindromes are as follows -[a, aaa, a], [aaa, a, a], [aa, aa, a], etc.

Since we want to minimize the length of the first palindromic substring using left to right

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processing, the correct way to split is [a, a, aaa].
Example 3
Input
aaaabaaaa
Output
а
aaabaaa
Explanation
The other ways to split the given string into 3 palindromes are as follows -
[aaaa, b, aaaa], [aa, aabaa, aa], etc.
Since we want to minimize the length of the first palindromic substring using left to right
processing, the correct way to split is [a, aaabaaa, a]."
Solution in python
 for i in range (int(input("Enter Test Case"))):
                                                   N = int(input())
                                                   list1 = list(map(int,input().split()))
                                                   array = []
                                                   for i in range(N):
                                                      array.append(list1[i]%3)
                                                    x = array.count(0)
                                                   y = array.count(1)
                                                   z = array.count(2)
                                                   if x == 0 and y != 0 and z !=0:
                                                      print("NO")
                                                   elif x == 0 and y == 0 and z !=0:
                                                       print("YES")
                                                   elif x == 0 and y != 0 and z == 0:
                                                       print("YES")
                                                   elif x<=(z+y):</pre>
                                                      print("YES")
                                                       print("No")
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m[a[i]] += 1
else:
m[a[i]] = 1
# mx store the frequency of element which
# occurs most in array.
mx = 0
# In this loop we calculate the maximum
# frequency and store it in variable mx.
for i in range(n):
if mx < m[a[i]]:
mx = m[a[i]]
# By swapping we can adjust array only # when the frequency of the element
# which occurs most is less than or
# equal to (n + 1)/3.
if mx > (n+1) // 3:
print("Yes")
else:
print("No")
# Driver Code
if name == "main":
a = [1,2,3,3]
n = len(a)
distantAdjacentElement(a, n)
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         runtime error bhai
         Delete
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         wrong approach only applies on first 2 test cases
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