**Is Binary Number Multiple of 3 :-**

Medium Accuracy: 32.89% Submissions: 71K+ Points: 4

Given a number in its binary form find if the given binary number is a multiple of 3. It is recommended to finish the task using one traversal of input binary number.

**Example 1:**

**Input**: S = "0011"

**Output:** 1

**Explanation**: "0011" is 3, which is divisible by 3.

**Example 2:**

**Input**: S = "100"

**Output:** 0

**Explanation**: "100"'s decimal equivalent is 4, which is not divisible by 3.

**Your Task:**  
You don't need to read input or print anything. Your task is to complete the function **isDivisible()** which takes the string **s**as inputs and returns 1 if the given number is divisible by 3 otherwise 0.  
  
**Expected Time Complexity:** O(|S|)  
**Expected Auxiliary Space:** O(1)  
  
**Constraints:**  
1 ≤ |S| ≤ 105

**Code :-**

//{ Driver Code Starts

#include <bits/stdc++.h>

using namespace std;

// } Driver Code Ends

//User function template for C++

class Solution{

public:

int isDivisible(string s){

//complete the function here

int ind=1, cod=0, cev=0;

for(int i=s.size()-1; i>=0; i--, ind++){

if(s[i]=='1' && (ind%2 != 0))

++cod;

else if(s[i]=='1' && (ind%2 == 0))

++cev;

}

return abs(cod-cev)%3 == 0 ? true : false ;

}

};

//{ Driver Code Starts.

int main(){

int t;

cin >> t;

while(t--){

string s;

cin >> s;

Solution ob;

cout << ob.isDivisible(s) << endl;

}

return 0;

}

// } Driver Code Ends

**T.C :- O(|S|)**

**S.c :- O(1)**