	Marwadi University Faculty of Technology Department of Information and Communication Technology	
Sem : 4	Name : VEDANT BHARAD	
Day : 108	Date : 2/2/2023	Enrollment No: 92100133023

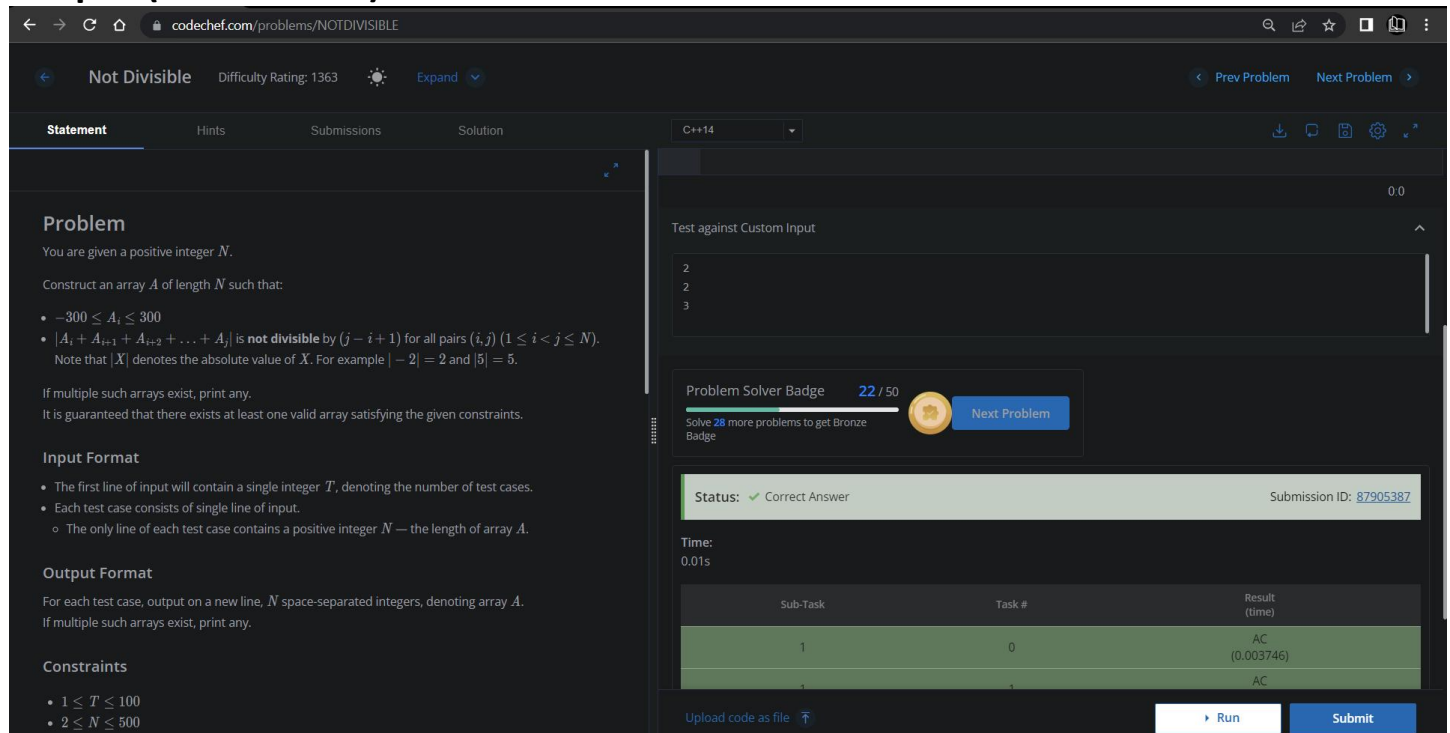# CP Club 365 Days Challenge

Programming language – C++

Problem Statement

https://www.codechef.com/START76B/problems/NOTDIVISIBLE

Git :- https://github.com/Vedantbharad2603/CP_club_365_Days

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Your Code:

```cpp
// 0x108Day of 0x365Days challenge
// VEDANT BHARAD
// 2-2-2023
#include <iostream>
using namespace std;
int main() {
    int t;
    cin>>t;
    while(t--){
        int n;cin>>n;
        for(int i=0;i<n;i++){
            if(i%2==0){
                cout<<0<<" ";
            }
            else{
                cout<<1<<" ";
            }
        }
        cout<<endl;
    }
    return 0;
}
```

Output (Screen Shot):

Problem

You are given a positive integer N.

Construct an array A of length N such that:

- $-300 \le A_i \le 300$
- $|A_i + A_{i+1} + A_{i+2} + \ldots + A_j|$ is **not divisible** by $(j - i + 1)$ for all pairs (i, j) $(1 \le i < j \le N)$.
  Note that $|X|$ denotes the absolute value of X. For example $|-2| = 2$ and $|5| = 5$.

If multiple such arrays exist, print any.
It is guaranteed that there exists at least one valid array satisfying the given constraints.

Input Format

- The first line of input will contain a single integer T, denoting the number of test cases.
- Each test case consists of single line of input.
  - The only line of each test case contains a positive integer N — the length of array A.

Output Format

For each test case, output on a new line, N space-separated integers, denoting array A.
If multiple such arrays exist, print any.

Constraints

- $1 \le T \le 100$
- $2 \le N \le 500$

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Understanding about problem:

- In this task I need to print n number (0 to n) first start from 0 to N if that number is odd then print 1 else print 0.

Note: If you can't understand the problem, feel free to contact us and we'll help you. Please don't copy and paste from anywhere.

ALL THE BEST
Team CP Club