
 <b>Marwadi</b> University	<b>Marwadi University</b> <b>Faculty of Technology</b> <b>Department of Information and Communication Technology</b>	
<b>Sem : 4</b>	<b>Name : VEDANT BHARAD</b>	
<b>Day : 78</b>	<b>Date : 3/1/2023</b>	<b>Enrollment No: 92100133023</b>

## CP Club 365 Days Challenge

Programming language – C++

### Problem Statement

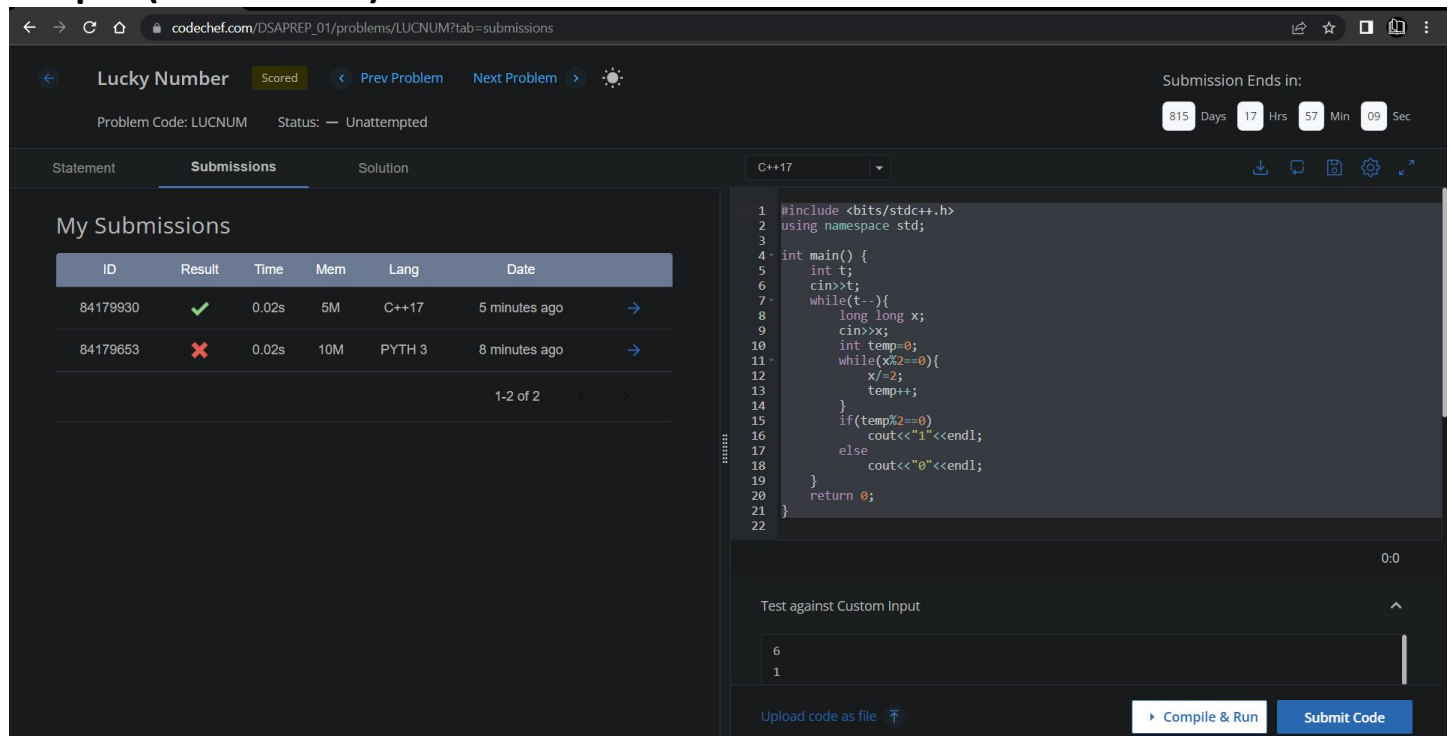
[https://www.codechef.com/DSAPREP\\_01/problems/LUCNUM](https://www.codechef.com/DSAPREP_01/problems/LUCNUM)

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## Your Code:

```
// 0x78Day of 0x365Days challenge
// VEDANT BHARAD
// 3-1-2023
#include <bits/stdc++.h>
using namespace std;
int main() {
    int t;
    cin>>t;
    while(t--){
        long long x;
        cin>>x;
        int temp=0;
        while(x%2==0){
            x/=2;
            temp++;
        }
        if(temp%2==0)
            cout<<"1"<<endl;
        else
            cout<<"0"<<endl;
    }
    return 0;
}
```

## Output (Screen Shot):



codechef.com/DSAPREP\_01/problems/LUCNUM?tab=submissions

Lucky Number **Scored** [Prev Problem](#) [Next Problem](#)

Problem Code: LUCNUM Status: — Unattempted

Submission Ends in: 815 Days 17 Hrs 57 Min 09 Sec

Statement **Submissions** Solution

### My Submissions

ID	Result	Time	Mem	Lang	Date
84179930	✓	0.02s	5M	C++17	5 minutes ago
84179653	✗	0.02s	10M	PYTH 3	8 minutes ago

1-2 of 2

C++17


```
1 #include <bits/stdc++.h>
2 using namespace std;
3
4 int main() {
5     int t;
6     cin>>t;
7     while(t--){
8         long long x;
9         cin>>x;
10        int temp=0;
11        while(x%2==0){
12            x/=2;
13            temp++;
14        }
15        if(temp%2==0)
16            cout<<"1"<<endl;
17        else
18            cout<<"0"<<endl;
19    }
20    return 0;
21 }
22
```

0:0

Test against Custom Input

6  
1

Upload code as file [↕](#) [Compile & Run](#) [Submit Code](#)

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### Understanding about problem:

- In this task I need to return 0 or 1 based on one logic prime factorization, if it has an even power of 2 in prime factorization then return 1 else return 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