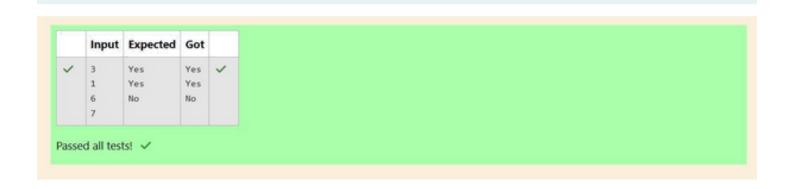
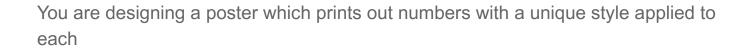


```
Answer: (penalty regime: 0 %)
```

```
#include<stdio.h>
    int main(){
 2 +
 3
         int T,N;
         scanf("%d",&T);
 4
        while(T--){
 5 v
             scanf("%d",&N);
 6
             int alice=1;
 7
        while(N>0){
 8 +
             if(alice){
 9 +
                  if (N>=4){
10 +
11
                      N-=4;
12
                  7
13 v
                  else{
                      N-=1;
14
15
                  }
             }
16
17 +
             else{
                  if(N)=4){
18 +
19
                      N-=4;
20
                  else{
21 +
22
                      N-=1;
23
24
             alice=|alice;
25
26
             if(alice){
27 +
                 printf("No\n");
28
29
             }
30 +
             else{
                 printf("Yes\n");
31
32
             }
33
34
        return 0;
35
36
   1}
```





of them. The styling is based on the number of closed paths or holes present in a given

number.

The number of holes that each of the digits from 0 to 9 have are equal to the number of

closed paths in the digit. Their values are:

1, 2, 3, 5, 7 = 0 holes.

0, 4, 6, 9 = 1 hole.

8 = 2 holes.

Given a number, you must determine the sum of the number of holes for all of its digits.

For example, the number 819 has 3 holes.

Complete the program, it must return an integer denoting the total number of holes in

num.
Constraints
1 ≤ num ≤ 109
Input Format For Custom Testing
There is one line of text containing a single integer num, the value to process.
Sample Input
630
Sample Output
2



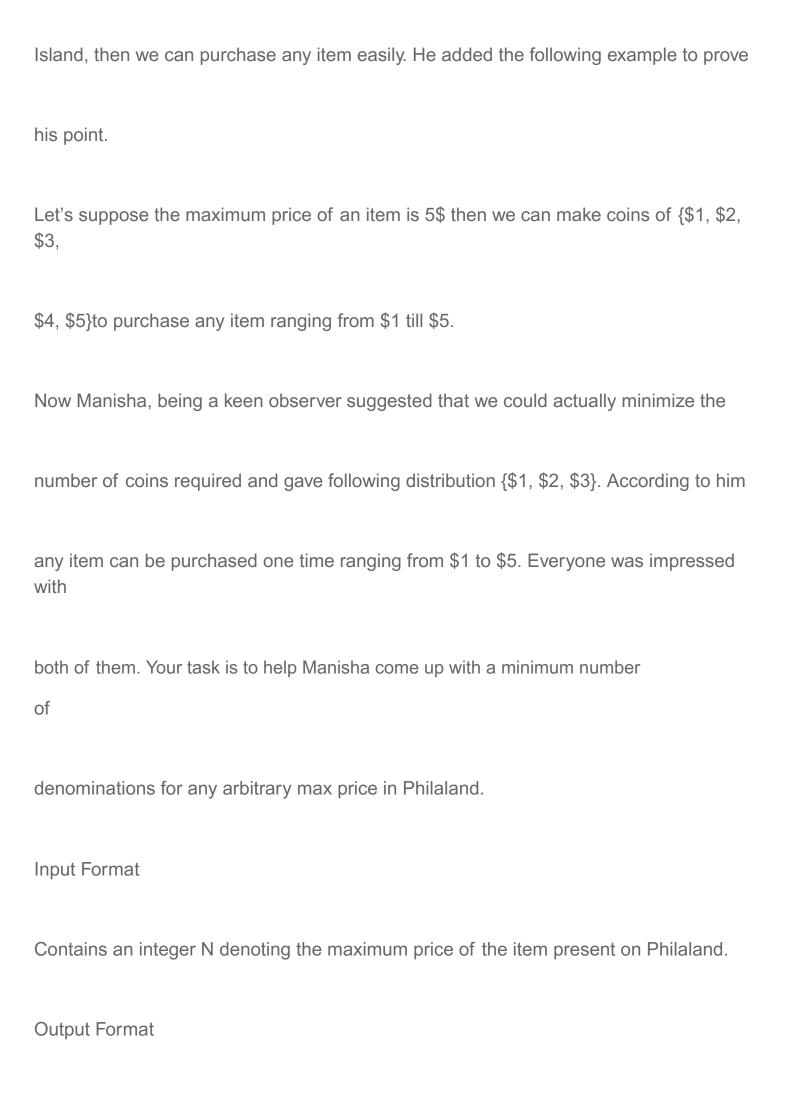
Problem Statement 3:

The problem solvers have found a new Island for coding and named it as Philaland. These

smart people were given a task to make a purchase of items at the Island easier by

distributing various coins with different values. Manish has come up with a solution that if

we make coins category starting from \$1 till the maximum price of the item present on



Print a single line denoting the minimum number of denominations of coins required.

Constraints

```
1<=T<=100 1<=N<=5000
```

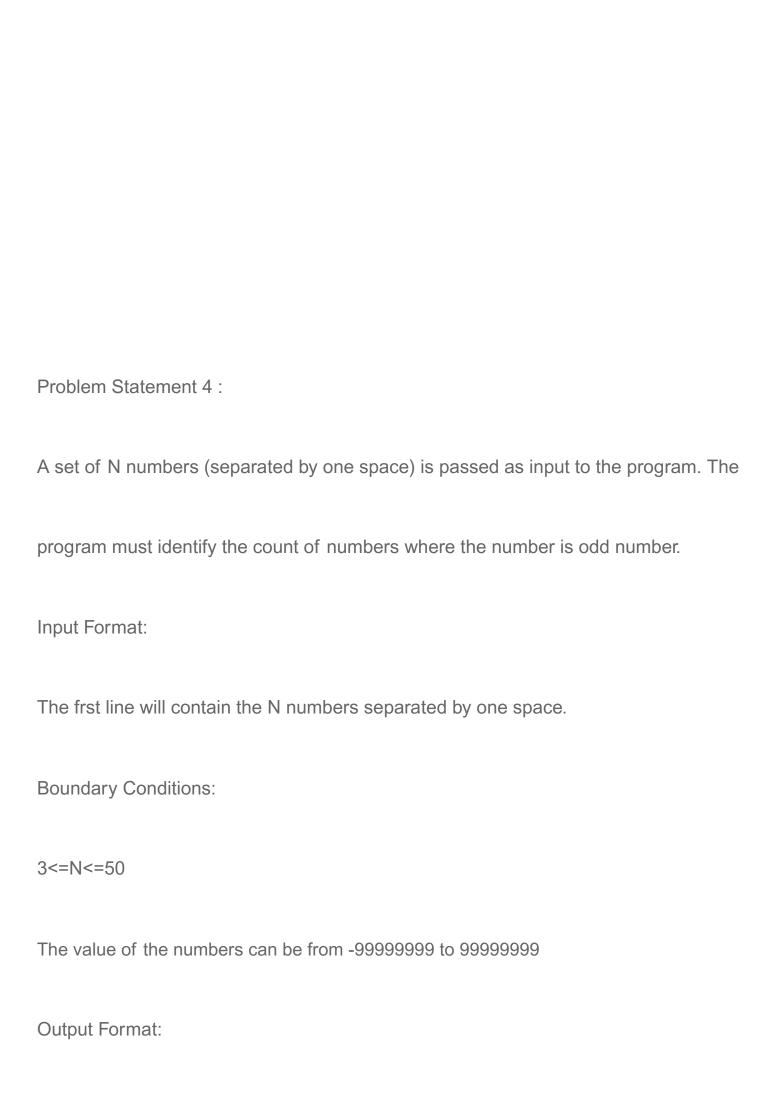
Sample Input 1:

10

Sample Output 1:

4





The count of numbers where the numbers are odd numbers.

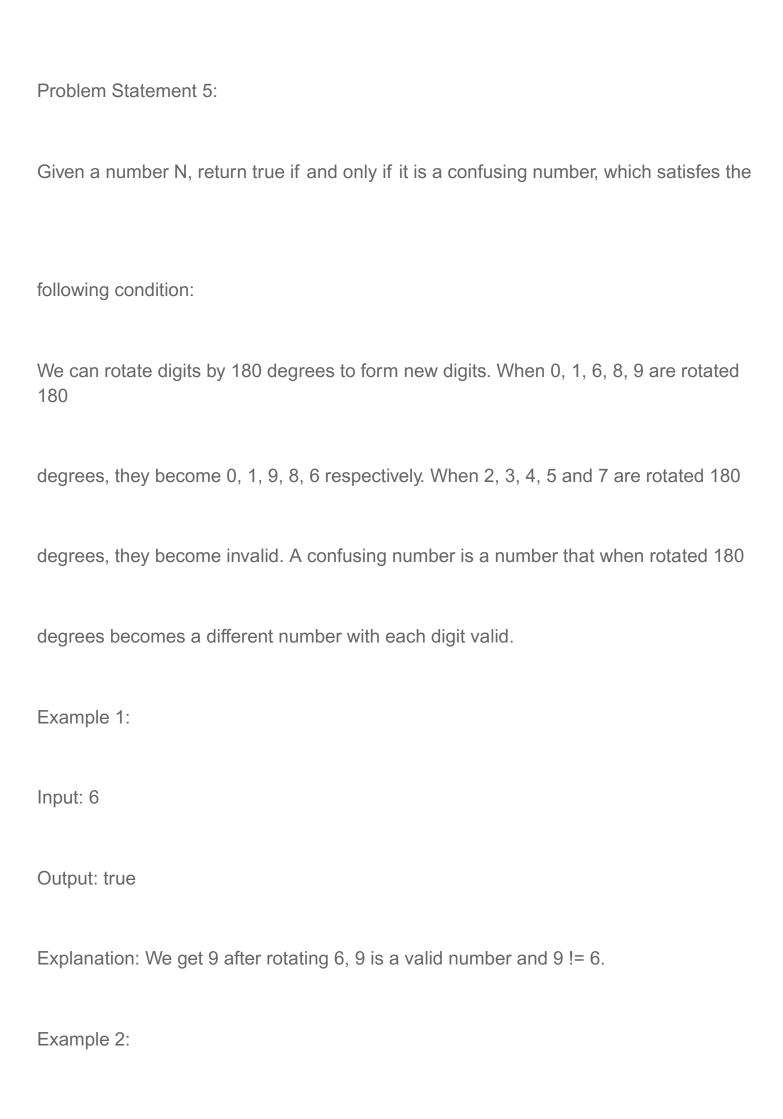
Sample Input:

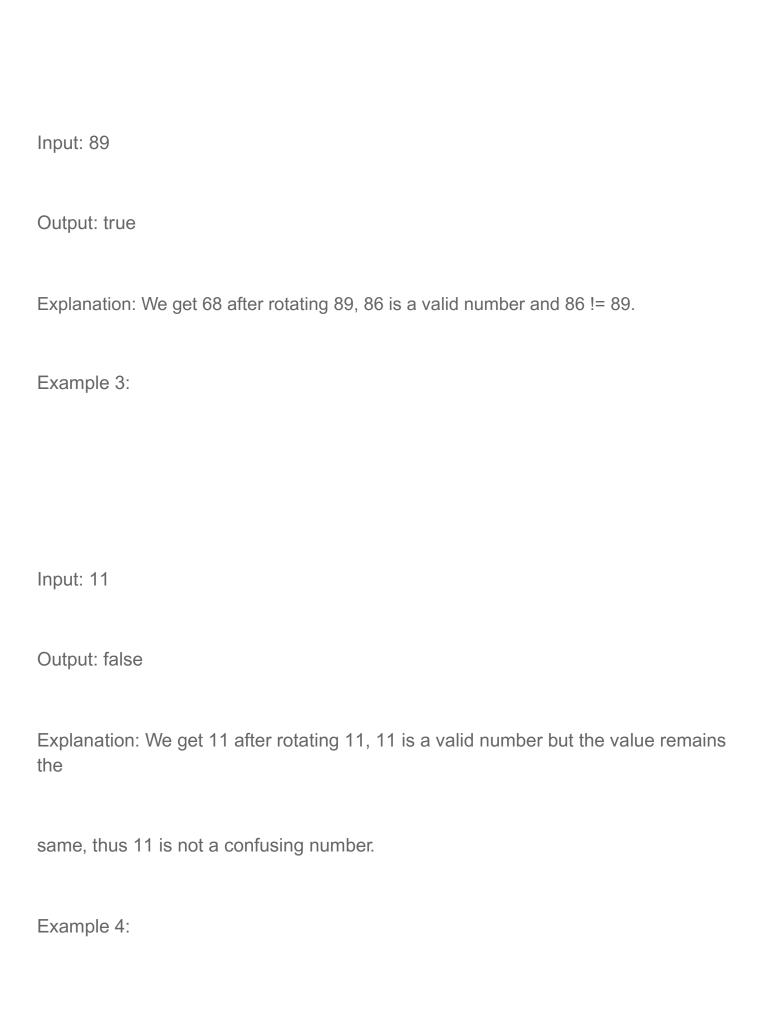
5101520253035404550

Sample Output:

5







Input: 25

Output: false

Explanation: We get an invalid number after rotating 25.

Note:

1. After the rotation we can ignore leading zeros, for example if after rotation we have

0008 then this number is considered as just 8.



Problem Statement 6:

A nutritionist is labeling all the best power foods in the market. Every food item

arranged in a single line, will have a value beginning from 1 and increasing by 1 for each,

until all items have a value associated with them. An item's value is the same as the number

of macronutrients it has. For example, food item with value 1 has 1 macronutrient, food

item with value 2 has 2 macronutrients, and incrementing in this fashion.

The nutritionist has to recommend the best combination to patients, i.e. maximum

total of macronutrients. However, the nutritionist must avoid prescribing a particular sum

of macronutrients (an 'unhealthy' number), and this sum is known. The nutritionist chooses

food items in the increasing order of their value. Compute the highest total of

macronutrients that can be prescribed to a patient, without the sum matching the given

'unhealthy' number.

Here's an illustration: Given 4 food items (hence value: 1,2,3 and 4), and the

unhealthy sum being 6 macronutrients, on choosing items 1, 2, 3 -> the sum is 6, which

matches the 'unhealthy' sum. Hence, one of the three needs to be skipped. Thus, the best

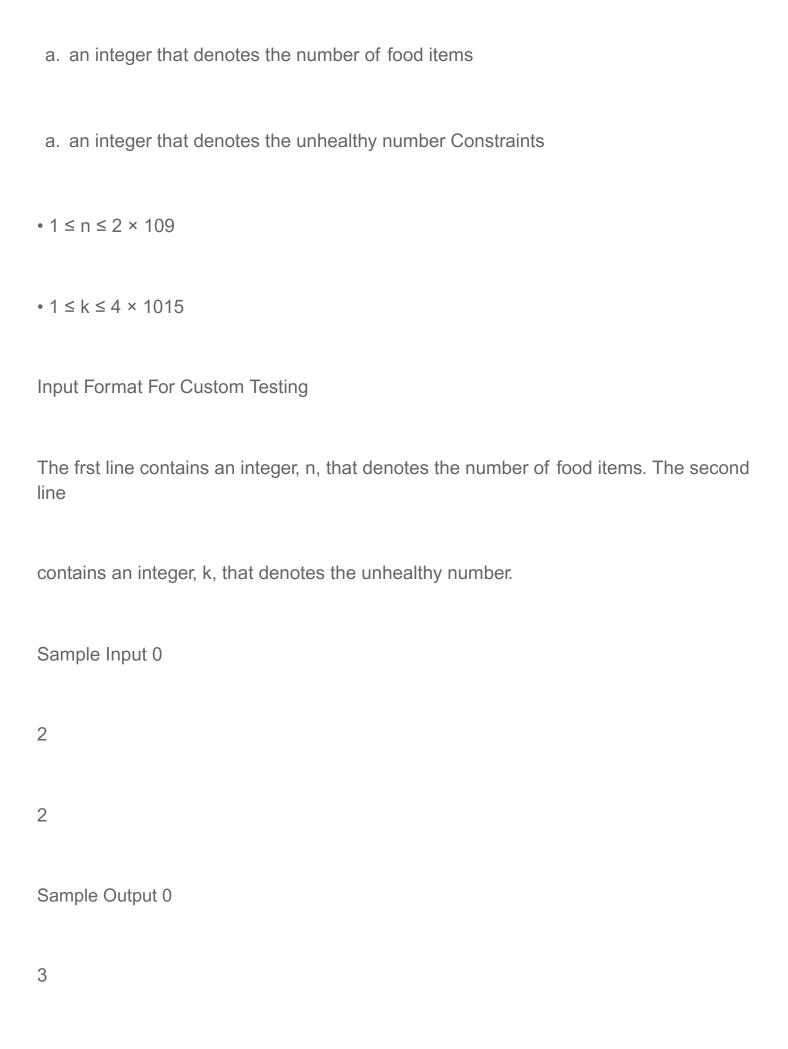
combination is from among:

- 2+3+4=9
- 1+3+4=8
- 1+2+4=7

Since 2 + 3 + 4 = 9, allows for maximum number of macronutrients, 9 is the right answer. Complete the code in the editor below. It must return an integer that represents

the maximum total of macronutrients, modulo 1000000007 (109 + 7).

It has the following:



	Input	Expected	Got	
~	2 2	3	3	~
~	2	2	2	~
~	3	5	5	~

Passed all tests! ✓