REC-CIS

GE23131-Programming Using C-2024 Quiz navigation

1 2 3
Show one page at a tim
Finish review

Question 1

Marked out of

Correct

3.00

question

Status Finished

Duration 9 days 3 hours

Started Monday, 23 December 2024, 5:33 PM

Alice and Bob are playing a game called "Stone Game". Stone game is a two-

player game. Let N be the total number of stones. In each turn, a player can

remove either one stone or four stones. The player who picks the last stone,

make the first move. Your task is to find out whether Alice can win, if both play

First line starts with T, which is the number of test cases. Each test case will

wins. They follow the "Ladies First" norm. Hence Alice is always the one to

Completed Saturday, 14 December 2024, 2:07 PM

the game optimally.

contain N number of stones.

Print "Yes" in the case Alice wins, else print "No".

Input Format

Output Format

Constraints

1<=T<=1000

1<=N<=10000

Input

3

1

6

Sample Input and Output

1 #include <stdio.h>

int T, i=0, n, t;

t=n/4;

else{

i++;

Input Expected Got

Yes

Yes

No

holes present in a given number.

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

0, 4, 6, and 9 = 1 hole.

number of holes in num.

Input Format For Custom Testing

8 = 2 holes.

Constraints

1 ≤ num ≤ 109

Sample Input

Sample Output

Explanation

Sample Case 1

Sample Input

Sample Output

Explanation

3 •

4

5

6 7 8

9 10 11

12

13 14 15

16

17 18

19 20 21 {

Answer: (penalty regime: 0 %)

int main()

#include <stdio.h>

int a,b,n=0;

while(a>0)

scanf("%d",&a);

b=a%10;

a=a/10;

printf("%d",n);

n=n**+1**;

else if(b==8)

n=n+2;

1288

4

630

2

while(i<T)</pre>

scanf("%d",&T);

scanf("%d",&n);

if(t%2==0 && n%2==0){

printf("No\n");

printf("No\n");

printf("Yes\n");

/

You are designing a poster which prints out numbers with a unique style

applied to each of them. The styling is based on the number of closed paths or

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

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

There is one line of text containing a single integer num, the value to process.

Add the holes count for each digit, 6, 3 and 0. Return 1 + 0 + 1 = 2.

Add the holes count for each digit, 1, 2, 8, 8. Return 0 + 0 + 2 + 2 = 4.

if(b==0 | |b==6| |b==9| |b==4)

Complete the program, it must must return an integer denoting the total

Yes

Yes

No

number of closed paths in the digit. Their values are:

its digits. For example, the number 819 has 3 holes.

else if(t%2==1 && n%2==1){

int main()

2

4

5

6 7

8

9

10

11 12

13 •

14 15

16

17 18 19

20

21 }

6

Passed all tests! <

3 ▼ {

7 Output Yes Yes No **Answer:** (penalty regime: 0 %)

Question **2**

Correct Marked out of 5.00 question

Question **3**

Correct

7.00

▼ Flag

question

Marked out of

3

Philaland. required. 1<=T<=100 **Sample Input 1:** 10 4 5

2 630 2 1288 4 Passed all tests! < in Philaland. **Input Format Output Format Constraints** 1<=N<=5000 Refer the sample output for formatting

Input Expected Got **✓ /** 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 Island, then we can purchase any item easily. He added the following example to prove his point. Let's suppose the maximum price of an item is 5\$ then we can make coins of {\$1, \$2, \$3, \$4, \$5}to purchase any item ranging from \$1 till \$5. Now Manisha, being a keen observer suggested that we could actually

minimize the number of coins required and gave following distribution {\$1, \$2, \$3}. According to him any item can be purchased one time ranging from \$1 to \$5. Everyone was impressed with both of them. Your task is to help Manisha come up with a minimum number of denominations for any arbitrary max price Contains an integer N denoting the maximum price of the item present on Print a single line denoting the minimum number of denominations of coins

Sample Output 1: Sample Input 2: Sample Output 2: Explanation: For test case 1, N=10. According to Manish {\$1, \$2, \$3,... \$10} must be distributed.

But as per Manisha only {\$1, \$2, \$3, \$4} coins are enough to purchase any item

ranging from \$1 to \$10. Hence minimum is 4. Likewise denominations could

also be {\$1, \$2, \$3, \$5}. Hence answer is still 4.

According to Manish {\$1, \$2, \$3, \$4, \$5} must be distributed.

For test case 2, N=5.

But as per Manisha only {\$1, \$2, \$3} coins are enough to purchase any item ranging from \$1 to \$5. Hence minimum is 3. Likewise, denominations could also be {\$1, \$2, \$4}. Hence answer is still 3. **Answer:** (penalty regime: 0 %) #include<stdio.h> 2 • int main(){ int n,r=0; 3 scanf("%d",&n); 4 while(n!=0) 5 6 7 n=n/2; 8 r=r+1;9 printf("%d",r); 10 11 Input Expected Got 4 **/** 10 4 **/**

5 3 3 **/ /** 20 5 **/** 500 9 **/ ✓** 10 1000 10 Passed all tests! < Finish review