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Status Finished

Started Monday, 23 December 2024, 5.33 PM
Completed Wednesday, 23 November 2024, 8:01 PM

Duration 32 days 21 hours

Сп-ес от 1 Солгест

Vanked out of 6.00 §* Flag question 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 test stone, wins, They follow the "Ladies First" norm, Hence Alice is always the one to make the first move. Your task is to find out whether Alice can win, if both play the game optimally.

Input Forms

First line starts with E, which is the number of test coses. Each test case will contain N number of stones.

Output Format

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

Constraints

1<-1<-1000

].1<-N<-30000

Sample Input and Output

Input

3

Ť

6

7

Dutput

Yes

Yes

No

Answer: (penalty regime: 0 %)

```
† |Wincludesstdia.h>
     int main(){
   int T,i=C.n,t;
   scanf("kd",&T):
   while(i<T)</pre>
 1
 5 6 7
                scanf("%d", &e);
 9
                if(1%2--0 && nt2--0)
10
11
12
                    prontf("MoVe");
13
14
15
                }
else if(t%2--1 %& n%2--!)
                     printf("No\n"):
16
17
18
                else
20
21
22
                     printf('Yes\n');
23
24
25
           return 0;
```

```
Input Expected Gat

3 Yes Yes
1 Yes Yes
5 No Ko
7

Passed all tests!
```

Question 2
Correct
Marked out of 5.00
F Flag question

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 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, and 7 = 0 holes.

0, 4, 6, and 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 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

Explanation

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

Sample Case 1

Sample Input

1288

Sample Output

4

Explanation

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

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3 int a,b,n=0;
4 scanf("%d",&a);
while(a>0)
6 {
5 b=a%10;
8 if(b==0||b==6||b==9||b==4)
9 {
10 n=n+1;
11 }
12 }
13 else if(b=8)
14 {
15 n=n+2;
16 }
17 }
18 a=a/10;
19 }
20 printf("%d",n);
return 0;
21 }
```

	Input	Expected	Got	
~	630	2	2	~
~	1288	4	4	~

Passed all tests! 🗸

Question 3

Correct

Marked out of 7.00

F Flag question

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 $\S1, \$2, \$3, \$4, \$5\}$ 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 in Philaland.

Input Format

Contains an integer N denoting the maximum price of the item present on Philaland.

Output Forma

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

Constraints

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

Refer the sample output for formatting

Sample Input

10

Sample Output 1:

Sample Input 2:

5

Sample Output 2:

3

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.

For test case 2, N=5.

According to Manish (\$1, \$2, \$3, \$4, \$5) must be distributed.

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 %)

	Input	Expected	Got	
~	10	4	4	~
~	5	3	3	~
~	20	5	5	~
~	500	9	9	~
/	1000	10	10	~

Passed all tests! 🗸

Quiz navigation

1 2 3

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Ouestion 1 Correct Marked out of 3.00

F Flag question

A set of N numbers (separated by one space) is passed as input to the program. The program must identify the count of numbers where the number is odd number.

Input Format:

The first line will contain the N numbers separated by one space.

Boundary Conditions:

3 <= N <= 50

The value of the numbers can be from -99999999 to 99999999

Output Format:

The count of numbers where the numbers are odd numbers.

Example Input / Output 1:

Input:

5 10 15 20 25 30 35 40 45 50

Output:

5

Explanation:

The numbers meeting the criteria are 5, 15, 25, 35, 45.

Answer: (penalty regime: 0 %)

```
Input Expected Got

5 10 15 20 25 30 35 40 45 50 5 5

Passed all tests! ✓
```

Correct
Variation of

🕝 i bej genetion

Given a number N, seturn true if and only if it is a confusing number, which satisfies the following condition:

We can rotate digits by 163 degrees to form new digits.
When 0, 1, 5, 8, 9 are rotated 180 degrees, they become 0, 1, 9, 8, 6 respectively. When 2, 3, 4, 5 and 7 are rotated 180 degrees, they become invalid. A confusing member is a number that when rotated 180 degrees becomes a different number with each digit valid.

Example 1:

6-09

Input: 6

Output; frum

Explanation:

We get 9 after rotating 6, 9 is a valid number and 91-5.

Example 2:

89 -> 60

Input: 89

Output; true

Explanation:

We got 68 after rotating 85, 86 is a valid number and β6!πβ9.

Example 3:

11 > 11

Input: 11

Output: Iniso

Explanation:

We got 11 after roteting 11, 11 as a valid number but the value remains the same, thus 11 is not a confusing number.

Note:

- 1. 0 <= N <= 10^9
- After the rotation we can ignore leading zeros, for example if after rotation we have 3008 then this number is considered as just 6.

Answer: (panalty regime: 0 %)

	Input	Expected	Gat	
4	6	trus	trus	~
Y	us	_rue	true	~
,	25	false	false	-

Passed all tests! -

Question 3
Correct
Marked out of
7.00
F Flag question

The nutritionist has to recommend the best combination to patients, i.e. maximum total of macronutrients. However, the nutritionist must wold prescribing a particular sum of macronutrients (an 'unhealthy' number), and this sum is known. The nutritionist chooses food litems 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.

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+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 $1000000007 (10^9 + 7)$.

It has the following:

n: an integer that denotes the number of food items

k: an integer that denotes the unhealthy number

- · 1≤n≤2×109 · 1≤k≤4×10¹⁵

Input Format For Custom Testing

The first line contains an integer, \emph{n} , that denotes the number of food items.

The second line contains an integer, k, that denotes the unhealthy number.

Sample Input 0

Sample Output 0

The following sequence of *n* = 2 food items:

1. Item 1 has 1 macronutrients.

- 2. 1 + 2 = 3; observe that this is the max total, and having avoided having exactly k = 2 macronutrients.

Sample Input 1

2

Sample Output 1

2

Explanation 1

- 1. Cannot use item 1 because k = 1 and sum = k has to be avoided at any time.
- Hence, max total is achieved by sum = 0 + 2 = 2.

Sample Case 2

Sample Input For Custom Testing

Sample Input 2

Sample Output 2

Explanation 2

2 + 3 = 5, is the best case for maximum nutrients.

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

1 ||Fincludestdio.h>
2 | int main(){
3 | long long int n,t.i.nut=0;
4 | scanf("slid %lid",8n,8t);
6 | for the stand of the stand o
```

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