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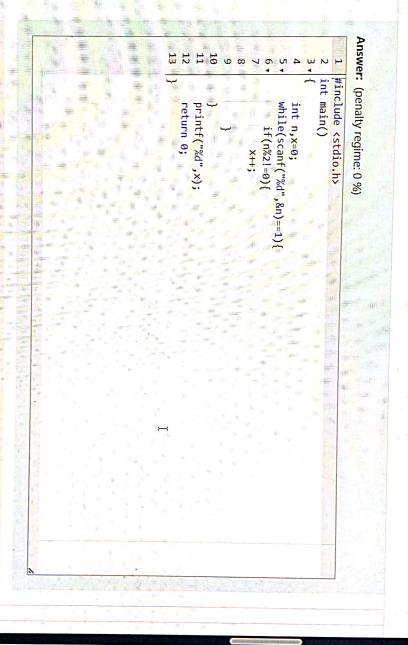
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GE23131-Programming U...

Week-04-02-Practice Se...
GE23131-Programming U...

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Question **2**Correct

Passed all tests! ~

Input

Expected Got

Marked out of

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

Was one ratata dialta bu 400 dagraanta form now dialta Whan 0-4 6 0 0 are ratatad 400 dagraan thau

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Marked out of Correct Question 2

▼ Flag question

5.00

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

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

Example 1:

6->9

Input: 6

Output: true

Explanation:

We get 9 after rotating 6, 9 is a valid number and 9!=6.

Example 2:

89 -> 68

Input: 89

Output: true

Explanation:

We get 68 after rotating 89, 86 is a valid number and 86!=89.

Example 3:

11 -> 11

Input: 11

Output: false

Explanation:

We get 11 after rotating 11: 11 is a valid number but the value remains the same, thus 11 is not a confusing



Input: 11

Output: false

We get 11 after rotating 11, 11 is a valid number but the value remains the same, thus 11 is not a confusing Explanation:

- 1. 0 <= N <= 10^9
- number is considered as just 8. 2. After the rotation we can ignore leading zeros, for example if after rotation we have 0008 then this

Answer: (penalty regime: 0 %)

```
9
110
112
12
13
14
15
                                                                                                                                                2 | int main()
                                                                                                                                                          #include <stdio.h>
                                                                                               int n,x,y=1;
scanf("%d",&n);
while(n!=0&&y==1){
    x=n%10,n=n/10;
                            if(y==1){
    printf("true");}
    else{
                                                                                     if(x==2||x==3||x==4||x==7){
                 printf("false");
```

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[[] GE23131-Programming U... Week-04-01-Practice Se..

iii GE23131-Programming U... Week-03-03-Practice Se..

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✓ 25	89	6	Input		
false	true	true	Input Expected Got		
false 🗸	true	true	Got		
<	<	<			

Question **3**Correct

Passed all tests! ~

Marked out of 7.00

P Flag question

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.

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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 $1, 2, 3 \rightarrow$ 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

Given 4 food items (hence value: 1,2,3 and 4), and the unhealthy sum being 6 macronutrients, on choosing items $1, 2, 3 \rightarrow$ 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 $1000000007 (10^9 + 7)$.

It has the following:

n: an integer that denotes the number of food items

k: an integer that denotes the unhealthy number

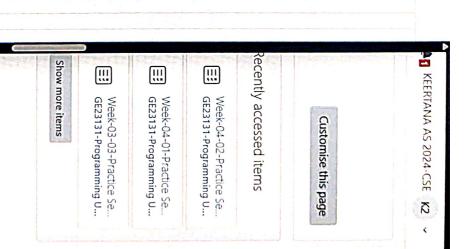
Constraints

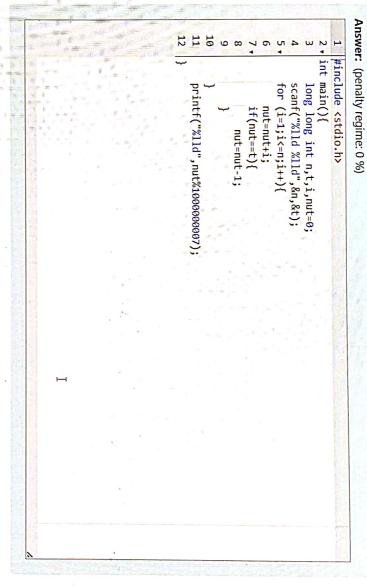
- $1 \le n \le 2 \times 10^9$
- $1 \le k \le 4 \times 10^{15}$

Input Format For Custom Testing

The first line contains an integer, n, that denotes the number of food items. The second line contains an integer, k, that denotes the unhealthy number.

Sample Input 0





	3	<	<	
Input	2	1 2	w	ىد
Expected Got	3	2	5	
Got	Ü	2	5	1
1	<	<	<	

Passed all tests! ~

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