





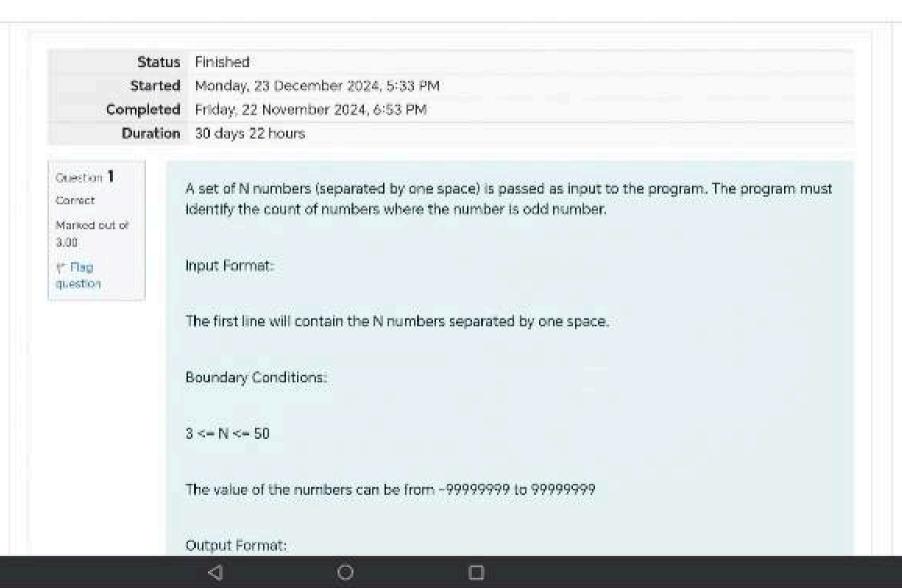
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Week-04-02-Practice Session-Coding: Attempt review | REC-CIS rajalakshmicolleges.org



# REC-CIS





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 60 Output: 5 Explanation: The numbers meeting the criteria are 5, 15, 25, 35, 45. Answer: (penalty regime: 0 %) 1 | Finclude stdlo.hb

```
Answer: (penalty regime: 0 %)
      #includesstdio.h>
      int main()
   23456
         int n.x=0;
         while(scant("%d",&n)--1)
            if(n%21=0)
   8 .
               Krt)
  10
  11
         printf("%d",x);
  12
  13
         return 0;
  14
  15
  16
  17
```

~	Input	Expected 5	Got 5	4
	5 10 15 20 25 30 35 40 45 50			

Passed all tests! 🗸







Question 2

Correct

Marked out of 5.00

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

We can rotate digits by 180 degrees to form new digits. When 0, 1, 6, 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 number* is a number that when rotated 180 degrees becomes a **different** number with each digit valid.

# Example 1:

6->9

Input: 6

Output: true

Explanation:

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

# 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

### Note:

4

1. 0 <= N <= 10^9

confusing number.

After the rotation we can ignore leading zeros, for example if after rotation we have 0008 then this number is considered as just 8.

Answer: (penalty regime: 0 %)

0

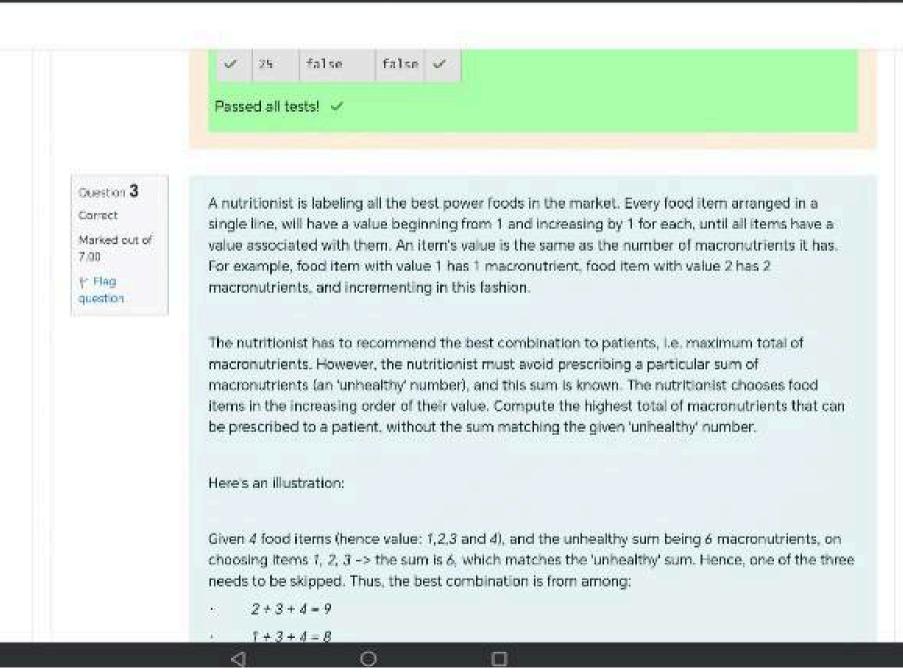
```
#include stdio.h>
    int main()
 3
 4
        int n,x,y=1;
 5
        scanf("%d",&n);
        while(n!=0 && y==1)
7
 8
               x=n%10; n=n/10;
 9
           1f(x--2 | | x--3 | | x--4 | | x--7)
10 .
11
               V++3
```

```
#Include<stdio.h>
 234
   int main()
        int n,x,y=1;
 5
        scanf("Md", &n);
 6
       while(n!-0 && y--1)
7 .
 8
         x-n/l0; n-n/10;
          if(x==2 || x==3 || x==4 || x==7)
10
11
              \lambda_{++1}
12
13
        11(y--1)
14
15 .
16
           printf("true");
17
        else
18
19
           printf("false");
20
21
22
23
24 )
```

	Input	Expected	Got	
V.	6	true	true	~
V	89	true	true	V

0

0



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

0

### Constraints

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

2

- 2

# Sample Output 0

3

# Explanation 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

1

- 1





# Explanation 2

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

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
2
   int main()
 4
        long long int n,t,1,nut=0;
        scanf("%lid %lid",&n,&t);
 6
        for(i-1;i<-n;i++)
           nut=nut+1;
 8
           if(nut==t)
10
11
               nut=nut-1;
12
13
        printf("%11d", nut%1000000007);
14
15
```

