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Question 4

1/4

Answered

You are designing a system which prints out numbers with a certain 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 or holes present in the digit. Their values are:

0, 1, 2, 3, 4, 5, 6, 7, 8, 9

Given a number, you must determine the sum of the number of holes for all of its digits. For example, the number 888 has 3 holes.

Complete the program, it must read input as integers (including the total number of holes in input).

Constraints:

1 < input < 100

Input format for Custom Testing:

There is one line of four containing a single integer representing the value to process.

Sample Input:

888

Sample Output:

3

Explanation:

Add the holes count for each digit, 8, 8 and 8. Holes: 1 + 1 + 1 = 3.

Sample Case 1

Sample Input:

1235

Sample Output:

4

Explanation:

Add the holes count for each digit, 1, 2, 3, 5. Holes: 0 + 0 + 1 + 2 = 3.

Answer: (empty) (empty) (0)

```
1 // You are designing a system which prints out numbers with a certain style applied to each of them. The styling is based on the number of closed paths or holes present in a given number.
2 // The number of holes that each of the digits from 0 to 9 have are equal to the number of closed paths or holes present in the digit. Their values are:
3 // 0, 1, 2, 3, 4, 5, 6, 7, 8, 9
4 // Given a number, you must determine the sum of the number of holes for all of its digits. For example, the number 888 has 3 holes.
5 // Complete the program, it must read input as integers (including the total number of holes in input).
6 // Constraints:
7 // 1 < input < 100
8 // Input format for Custom Testing:
9 // There is one line of four containing a single integer representing the value to process.
10 // Sample Input:
11 // 888
12 // Sample Output:
13 // 3
14 // Explanation:
15 // Add the holes count for each digit, 8, 8 and 8. Holes: 1 + 1 + 1 = 3.
16 // Sample Case 1
17 // Sample Input:
18 // 1235
19 // Sample Output:
20 // 4
21 // Explanation:
22 // Add the holes count for each digit, 1, 2, 3, 5. Holes: 0 + 0 + 1 + 2 = 3.
```

Input	Expected output
888	3
1235	4

Correct Answer: 3

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Finish review

1

Correct

Marked out of 100

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Started: Monday, 23 December 2024, 5:33 PM

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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: [formatting: regular 0 %]

```
1 #include <iostream.h>
2 using namespace std;
3 int main()
4 {
5     int n, a, b;
6     while (cin >> n)
7     {
8         int i;
9         for (i = 0; i < n; i++)
10         {
11             int x;
12             cin >> x;
13             if (x % 2 != 0)
14                 b++;
15         }
16         cout << b << endl;
17     }
18 }
```

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

Passed all tests! ✓

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GE23131-Programming Using C-2024

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Question 2

Correct

Marked out of 1.00

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

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, 6, 8 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 9 != 6.

Example 2:

89 -> 68

Input: 89

Output: true

Explanation:

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

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 number.

Note:

- 0 <= N <= 10⁹
- After the rotation we can ignore leading zeros, for example if after rotation we have 0000 then this number is considered as just 0.

Answer: (penalty regime: 0 %)

```
1: #include <iostream.h>
2:
3: int main()
4: {
5:     int n,x,y,p=1;
6:     scanf("%d",&n);
7:     while(n!=0)
8:     {
9:         x=n%10;
10:        n=n/10;
11:        if(x==2 || x==3 || x==4 || x==7)
12:        {
13:            y=y*10;
14:            break;
15:        }
16:        if(x==0)
17:        {
18:            printf("true");
19:        }
20:        else
21:        {
22:            printf("false");
23:        }
24:    }
25:    return 0;
}
```

Input	Expected	Got
6	true	true
89	true	true
25	false	false

Passed all tests. ✓

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- $\mathcal{P} = \mathcal{R} + \mathcal{G} = 0$
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- $\mathcal{P} = \mathcal{R} + \mathcal{G} = 0$

Complete the entries in the matrix below. If several values are possible, find one such value. The maximum total of non-zero entries is equal to 9000000000000.

It is an integer that divides the cardinality number

- $\mathbb{Z} \times \mathbb{Z} \times \mathbb{Z} \cong \mathbb{Z}^3$
- $\mathbb{Z} \times \mathbb{Z} \times \mathbb{Z} \cong \mathbb{Z}^3$

The first line contains an integer, n , that describes the number of food items.

Example Input 1

Example Output 8

3. $\Gamma = \Gamma_{\text{an}}$ (Anomalous).
4. $\Gamma = \Gamma_{\text{an}}$ (Anomalous) but Hilb is the universal Hilbert ring and Hilb is not a UFD.

Example Output 1

Figure 1

Sample Case 2

Example Input 2

Example Output 2

Explanation 2

Answer: (probably) square (1%)

```

4:         cout<<"\n";
5:         return 0;
6:     }
7: }

```

[illegible]

100

	Input	Expected	Got	
1				1

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