Contests   Virtual Contests   Problems   Submit   Runs Status   Rank List   Forum

1257. f91

Time Limit: 1.0 Seconds   Memory Limit: 65536K
Total Runs: 9478   Accepted Runs: 4431

Background

McCarthy is a famous theorician of computer science. In his work, he defined a recursive function, called f91, that takes as input a positive integer N and returns a positive integer defined as follows:

- If N ≤ 100, then f91(N) = f91(f91(N+11));
- If N ≥ 101, then f91(N) = N-10.

The Problem

Write a program, that computes McCarthy's f91.

The Input

The input tests will consist of a series of positive integers, each integer is at most 1,000,000. There will be at most 250,000 test cases. Each number is on a line on its own. The end of the input is reached when the number 0 is met. The number 0 shall not be considered as part of the test set.

Output

The program shall output each result on a line by its own, following the format given in the sample output.

Sample Input

```
500
91
0
```

Sample Output

```
f91(500) = 490
f91(91) = 91
```

Hint

Huge input and output, scanf( ) and printf( ) are recommended.

Source: *UVA*

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Maintance:Fxz. Developer: SuperHacker, G.D.Retop, Fxz