uva Dnline Judge

## 10699 Count the factors

Write a program, that computes the number of different prime factors in a positive integer.

## Input

The input tests will consist of a series of positive integers. Each number is on a line on its own. The maximum value is 1000000 . 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

289384
930887
692778
636916
747794
238336
885387
760493
516650
641422
0

## Sample Output

289384 : 3
930887 : 2
692778 : 5
636916 : 4
747794 : 3
238336 : 3
885387 : 2
760493 : 2
516650 : 3
641422 : 3

