Factorization   P94107_en

Write a program to print the list of prime factors of every given natural number.

Input

Input is a sequence of natural numbers greater than 1.

Output

For each natural number of the input, print its prime factors in increasing order and following the format of the example.

Sample input	Sample output
18	18 = 2*3*3
15	15 = 3*5
19	19 = 19
64	64 = 2*2*2*2*2*2
83276	83276 = 2*2*109*191

Problem information

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