Problem C: Divide, But Not Quite Conquer!

The Problem

Your goal in this problem is to divide a certain integer n by another integer m until n = 1, obtaining a sequence of numbers. Lets call a[i] each number of this sequence, and let's say it has k numbers (i.e. you must do k-1 succesive divisions to reach n = 1). You can only have this sequence if the following restrictions are met:

1. a[1] = n, a[i] = a[i-1] div m, for all 1 < i <= k
2. a[i] is divisible by m (that is, a[i] mod m = 0) for all 1 <= i < k
3. a[1] > a[2] > a[3] ... > a[k]

For instance, if n = 125 and m = 5, you have 125, 25, 5 and 1 (you did 3 divisions: 125/5, 25/5 and 5/5). So, k = 4, a[1] = 125, a[2] = 25, a[3] = 5 and a[4] = 1. If n = 30 and m = 3, you have 30, 10, 3 and 1. But a[2] = 10, and 10 mod 3 = 1, so there is no sequence because it violates restriction 2. When the sequence doesn't exist we think it's not fun and, thus, very boring!

The Input

The input will consist on an arbitrary number of lines. Each line will consist of two non-negative integers n,m which are both less than 2000000000. You must read until you reach the end of file.

The Output

For each pair n,m you must print the correpondent sequence a (as defined above) in a single line, with each adjacent numbers of the sequence separated by a single space. In the case the sequence doesn't exist because it violates some restriction, just print the phrase "Boring!" in a single line (without the quotes).

Sample Input

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125 5
30 3
80 2
81 3
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Sample Output

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125 25 5 1
Boring!
Boring!
81 27 9 3 1
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