

5295 Safari Holiday

A safari holiday is organized for n people according to the following rules:

- During the safari, the participants are going out every day, in groups of exactly k persons, to enjoy wild-life watching in deep savanna.
- The number of persons in a group is the same every day and cannot exceed a maximum value $kmax$ agreed by the safari organizers.
- For any given day, during the safari, each participant is member of a group in that day.
- Each day every person is in a totally new company, i.e. the remaining $n - 1$ persons of his/her group are different from those in the previous days.
- At the end of the safari everybody must have been in the company of everybody, i.e. for any two participants A and B there is a day, during the safari, such that A and B are in the same group that day.

For example, for 4 safari participants and for $kmax = 3$ there are 2 groups of 2 persons each every day and the safari schedule can be as follows:

	group 1	group 2
day 1:	1,2	3,4
day 2:	1,3	2,4
day 3:	1,4	2,3

Write a program that, for a given pair $n, kmax$ (the number of safari participants and the maximum size of the groups), computes the largest possible size of the safari groups (the largest possible value of k such that $k \leq kmax$) and the corresponding number of days of the safari holiday.

Input

The program reads sets of data from a text file. Each data set is on a separate line and has the format: $n kmax$, where n and $kmax$ are strictly positive integers, that can have large values.

Output

For each data set the program prints to the standard output the corresponding size of the safari groups and the number of days of the safari holiday, as illustrated in the sample below. If the problem has no solution the program prints the message 'No solution'. Each result is on a separate line.

Sample Input

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4 1
4 2
4 3
4 4
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Sample Output

No solution

2 persons/group, 3 days

2 persons/group, 3 days

4 persons/group, 1 day