Multisets (1) P63227_en

Write a program that, given two numbers n and x, prints all the multisets that can be made up with $\{1, \ldots, n\}$, in such a way that every number appears at most x times.

Input

Input consists of a natural number $n > 0$, followed by a natural number $x > 0$.

Output

Print all the multisets that can be made with $\{1, \ldots, n\}$, using each number at most x times. The numbers inside each multiset must appear in non-decreasing order.

Information about the checker

You can print the solutions to this exercise in any order.

Sample input 1

```
2 3
```

Sample output 1

```
{}
{2}
{2,2}
{2,2,2}
{1}
{1,2}
{1,2,2}
{1,2,2,2}
{1,1}
{1,1,2}
{1,1,2,2}
{1,1,2,2,2}
{1,1,1}
{1,1,1,2}
{1,1,1,2,2}
{1,1,1,2,2,2}
```

Problem information

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