
Multisets (1)

P63227_en

Write a program that, given two numbers n and x , prints all the multisets that can be made up with $\{1, \dots, n\}$, 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 $\{1, \dots, n\}$, 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

2 3

Sample output

```
{ }
{ 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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