# Problem 2 – Balls

Andrey, Denis and Cveti love playing pool. One day they've started wondering how many ways there are to **pocket all balls** **without** leaving an **empty pocket**. In their game, a pool table has **P pockets**. Each pocket can hold at most  **K balls**. A ball set consists of **N balls**, not including the cue ball.

#### Input

* On the first line, you will be given P - the number of pockets on the table
* On the second line, you will be given N - the number of balls on the table
* On the third line, you will be given K - the maximum number of balls a pocket can contain at the same time

#### Output

* Print all possible ways to distribute N balls into P pockets without leaving an empty pocket. Order does not matter

#### Constraints

* The number of pockets P will be an integer in the range [**1…15**].
* The number of balls N will be an integer in the range [**1…30**].
* The pocket size K will be an integer in the range [**1…15**].
* Time limit: **300 ms**. Allowed memory: **64 MB**.

#### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comment** |
| 3  5  3 | 3, 1, 1  2, 2, 1  2, 1, 2  1, 3, 1  1, 2, 2  1, 1, 3 |  |

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comment** |
| 3  3  3 | 1, 1, 1 |  |