# Cinema

Write a program that prints all of the possible **distributions** of a group of friends in a **cinema hall**. On the **first line** you will be given all of the friend's **names** separated by **comma and space**. Until you receive the command **'generate'** you will be given some of those friend's **names** and a **number of the place** that they want to have. (format: **"{name} - {place}"**) So here comes the tricky part. Those friend's **wan**t only to **sit** on the place that they **have chosen**. They **cannot sit on other places**. For more clarification see the examples below.

### Output

Print all the **possible ways to distribute the friends** having in mind that some of them want a particular place and they will sit there only. The **order** of the output does **not matter**.

### Constrains

* The friends **names** and the **number** of the place will always be valid

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| Peter, Amy, George, Rick  Amy - 1  Rick - 4  generate | Amy Peter George Rick  Amy George Peter Rick | Amy only wants to sit on the first seat and Rick wants to sit on the fourth, so we only switch the other friends |
| Garry, Liam, Teddy, Anna, Buddy, Simon  Buddy - 3  Liam - 5  Simon - 1  generate | Simon Garry Buddy Teddy Liam Anna  Simon Garry Buddy Anna Liam Teddy  Simon Teddy Buddy Garry Liam Anna  Simon Teddy Buddy Anna Liam Garry  Simon Anna Buddy Garry Liam Teddy  Simon Anna Buddy Teddy Liam Garry |  |