## Hot Potato

Hot Potato is a game in which children form a circle and start tossing a hot potato. The counting starts with the first kid. **Every nth toss the child who is holding the potato leaves the game**. When a kid leaves the game, it **passes** the potato to the next kid. This continues **until there is only one kid left**.

Create a program that simulates the game of Hot Potato. On the **first line** you will receive names of kids, separated by a single space. On the **second line** you will receive the **nth** toss (integer) in which a child leaves the game.

**Print** everykidwhich is **removed** fromthe **circle** in the format **"Removed {kid}"**. In the end, **print** the **only kid left** in the format **"Last is {kid}"**.

### Examples

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| **Input** | **Output** |
| Tracy Emily Daniel  2 | Removed Emily  Removed Tracy  Last is Daniel |
| George Peter Michael William Thomas  10 | Removed Thomas  Removed Peter  Removed Michael  Removed George  Last is William |
| George Peter Michael William Thomas  1 | Removed George  Removed Peter  Removed Michael  Removed William  Last is Thomas |