# Froggy Squad



Create a program that helps you keep track of the **frogs** that are on the riverside. Because you are an extreme animal lover, you also name them. You will **receive** the **names of the frogs** that are already on the riverside on a **single line,** **separated** by a **single** **space** in the following format:

**"{frog1} {frog2} {frog3}… {frogn}"**

Then you will receive commands that describe their action. There are **five** **possible** **commands**:

* **"Join {name}":**
  + A frog **comes** on the riverside and you need to **add** it in the **end** of your **collection**. Frog names will **never repeat**.
* **"Jump {name} {index}"**
  + A frog **jumps** **out** of the water and **joins** the other frogs. You need to **add** it in your **collection** **on the given index, if** the **index** **exists**.
* **"Dive {index}":**
  + The **frog on the given index** has decided to **jump into the water**. You have to **remove** it from your **collection, if** the **index** **exists**.
* **"First/Last {count}":**
  + Print the **first**/**last** **{count}** frogs separated by a **single** **space**. If the **count** requested is **more than the frogs**- just **print them to the end**.

**"{frog} {frog} {frog}"**

* **"Print Normal/Reversed"**
  + **Print** the **names** of the frogs in your **collection** in **normal** (in the order they have been added) or **reversed** **order** in the **format** described **below**, then **stop** **the** **program**:

**"Frogs: {frog1} {frog2}… {frogn}"**

## Input

* On the **1st line**, you will receive the **starting list** with the **names of the frogs** **separated** by a **single space**.
* On the **next lines**, you will receive commands in the **format** **described** above**.**

## Output

* Print the **list after** the **manipulations upon the "Print" command** in the **format** **described** above.

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| Blake Muggy Kishko Join Kvachko Dive 0  First 10 Print Reversed | Muggy Kishko Kvachko Frogs: Kvachko Kishko Muggy |
| **Comments** | |
| First, we receive the "**Join Kvachko**" command, so we add the frog in the end of the collection. Then, we receive the command "**Dive 0"**, so we remove the frog on index 0. Also, we receive the command "**First 10**", which is more than the frogs we have, so we print all frogs instead. Lastly, we have to **print** the collection in **reversed**, so our output is: "**Frogs: Kvachko Kishko Muggy**"**.** | |
|  | |
| A B C D E F Join G Jump Q 3  Last 3 Dive 2 Print Normal | E F G Frogs: A B Q D E F G |