# Commands

You will be given a **series of strings** on a single line, separated by **one white space**. These represent the collection you’ll be working with.

On the next input lines, until you receive the command **"end"**, you’ll receive a series of commands in one of the following formats:

* **reverse from [start] count [count]** - this instructs you to reverse a **portion** of the array – just [count] elements starting at index [start];
* **sort from [start] count [count]** - this instructs you to sort a **portion** of the array - [count] elements starting at index [start];
* **remove [count]** - **remove** the first **count** elements

***Note: commands will always be valid and in the range of the array***

After you're done, print the resulting elements joined by **", "**. The examples should help you understand the task better.

### Input

* The input data should be read from the console
* The first input line will hold **a series of strings**, separated by **one whitespace**
* The next lines will hold **commands** in the described formats (exactly)
* The input ends with the keyword **"end"**
* The input data will always be valid and in the format described. There is no need to check it explicitly

### Output

* The output should be printed on the console.
* After receiving the "**end**" command, print the **resulting array** on the console in the format specified above.

### Constraints

* The **count of strings** in the collection will be in the range [1 … 50]
* The **number of commands** will be in the range [1 … 20]
* All commands will be in the described format
* [**start**] and [**count**] will be integers in the range [-231 … 231 - 1]

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 1 2 **5 8 7 3** 10 6 4 9  reverse from 2 count 4  end | 1, 2, **3, 7, 8, 5**, 10, 6, 4, 9 |
| 1 2 **5 8 7 3** 10 6 4 9  sort from 2 count 4  end | 1, 2, **3, 5, 7, 8**, 10, 6, 4, 9 |
| 1 2 **5 8 7 3** 10 6 4 9  remove 2  end | 5, 8, 7, 3, 10, 6, 4, 9 |

### JS Input

|  |  |
| --- | --- |
| **Input** | **Output** |
| ([["1", "2", "5", "8", "7", "3", "10", "6", "4", "9"],  "reverse from 2 count 4",  "end"]) | 1, 2, **3, 7, 8, 5**, 10, 6, 4, 9 |
| ([["1", "2", "5", "8", "7", "3", "10", "6", "4", "9"],  "sort from 2 count 4",  "end"]) | 1, 2, **3, 5, 7, 8**, 10, 6, 4, 9 |
| ([["1", "2", "5", "8", "7", "3", "10", "6", "4", "9"],  "remove 2",  "end"]) | 5, 8, 7, 3, 10, 6, 4, 9 |