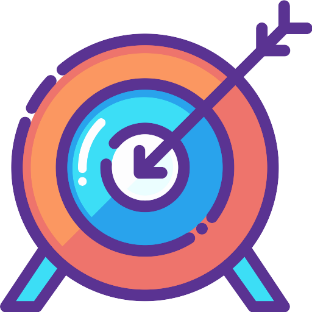
# Problem 2 - Archery Champion



*John is going to take part in an archery tournament. Your task is to help him calculate his points.*

On the **first line,** you will receive integers separated by **"|"**, representing the targets in the archery field.  
On the following lines, until you receive the "**Game over**" command, you will receive commands from the Judge of the tournament:

* **"Shoot Left@{startIndex}@{length}"**:
* John starts traversing the archery field to the **left** from the **{start index}** with the given **{length}**.
* If he goes **out of the field** while traversing, he will continue from the **end of the field**.
* If the start index is **out of the field's range**, ignore the command.
* **"Shoot Right@{startIndex}@{length}"**:
* John starts traversing the archery field to the **right** from the **{start index}** with the given **{length}**.
* If he goes **out of the field** while traversing, he will continue from the **start of the field.**
* If the start index is **out of the field's range**, ignore the command.
* **"Reverse"**:
* **Reverse** the archery field.
* **"Game over"**:
* **Print** the archery **field and collect points**.

When **he arrives at the target**, he will shoot at it, **increase his points by 5**, and **decrease the target's points by 5 points**. If the **target points are less than 5**, he takes **all of them and decreases them to 0**. If the **start index is out of range** of the field, John must **ignore the command**.

## Input

* On the **first line**, you will receive integers **separated** by **"|"** representing the **targets in the archery field**.
* On the **next lines**, until the "**Game over**" command, you will receive **commands** in the **format described** **above**.

## Output

* Print the field in the following format:

**"{target} - {target} - {target} - … - {target}"**

**"John finished the archery tournament with {points} points!"**

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 10|10|10|10|10 Shoot Left@0@2  Shoot Right@4@5  Shoot Right@6@5  Reverse  Game over | 5 - 5 - 10 - 10 - 10  John finished the archery tournament with 10 points! |
| **Comments** | |
| First, John receives the **"Shoot Left@0@2"** command, so he starts traversing the archery field **to the left** from **index 0** with **length 2**, and he stops at **index 3**. He shoots, and the archery field looks like: 10 - 10 - 10 - 5 - 10, and his points are 5.  Then he receives **"Shoot Right@4@5"** -> 10 - 10 - 10 - 5 – 5.  **"Shoot Right@6@5"** -> Index 6 is **out of range** of the field, so John ignores the command.  **"Reverse"** -> After that command, the field looks like this: 5 - 5 - 10 - 10 – 10. | |
|  | |
| 20|30|40|50|60 Shoot Left@0@12  Shoot Right@4@15  Shoot Left@6@5  Reverse  Game over | 55 - 45 - 40 - 30 - 20  John finished the archery tournament with 10 points! |

**JS Examples**

|  |  |
| --- | --- |
| **Input** | **Output** |
| (["10|10|10|10|10", "Shoot Left@0@2",  "Shoot Right@4@5",  "Shoot Right@6@5",  "Reverse",  "Game over"]) | 5 - 5 - 10 - 10 - 10  John finished the archery tournament with 10 points! |
| **Comments** | |
| First, John receives the **"Shoot Left@0@2"** command, so he starts traversing the archery field **to the left** from **index 0** with **length 2**, and he stops at **index 3**. He shoots, and the archery field looks like: 10 - 10 - 10 - 5 - 10, and his points are 5.  Then he receives **"Shoot Right@4@5"** -> 10 - 10 - 10 - 5 – 5.  **"Shoot Right@6@5"** -> Index 6 is **out of range** of the field, so John ignores the command.  **"Reverse"** -> After that command, the field looks like this: 5 - 5 - 10 - 10 – 10. | |
|  | |
| (["20|30|40|50|60", "Shoot Left@0@12",  "Shoot Right@4@15",  "Shoot Left@6@5",  "Reverse",  "Game over"]) | 55 - 45 - 40 - 30 - 20  John finished the archery tournament with 10 points! |