## **Archery Tournament**

Our hero Iskren 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 next lines until you receive "Game over" command, you will receive commands by the Judge of the tournament:

- "Shoot Left@{start index}@{length}":
  - Iskren starts traversing the archery field to the left from {start index} with given {length}.
  - If he goes **out of the field**, he will continue from the **end of the field**.
- "Shoot Right@{start index}@{length}":
  - Iskren starts traversing the archery field to the right from {start index} with given {length}.
  - If he goes out of the field, he will continue from the start of the field.
- "Reverse":

Reverse the archery field.

"Game Over"

**Print** the archery **field and collected points**.

When he arrives at the target, he will shoot at it and increase his points by 5 and decrease the target by 5 points, if the target points are less than 5, he takes all of them and decreases it to 0. If the start index is out of range of the field Iskren will have to **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 following format: "{target} - {target} - {target} .... - {target}". "Iskren finished the archery tournament with {points}!"

# **Examples**

Input	Output



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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

Iskren finished the archery tournament with 10 points!

#### **Comments**

First, Iskren receives the "Shoot Left@0@2" command, so he starts traversing the archery field from index 0 with **length 2** and he stops at **index 3**. He shoots and the archery filed looks like this: 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 Iskren 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

Iskren finished the archery tournament with 10 points!













