# QA Back-End Technologies Basics

# Exam Prep I

You can check your solutions in [Judge](https://judge.softuni.org/Contests/Practice/Index/4698#1).

## Cinema

Someone mixed up the order of the movie tickets in the box office and now the customers are confused. In order to sell the tickets correctly, you need to sort them out. Write a function **cinema(input)** that solves this problem.

The function receives an array.

On the first line of the standard input, you will receive an integer **n** – the number of movies.

On the next **n** lines are the movies' names.

After you have successfully extracted the movies, you will be navigating through a series of commands, each on a **new line**, until the "**End**" command is given.

* "**Sell**" command – you must remove the ticket at the first position in the array and print: **"{movie title} ticket sold!**"
* "**Add** **{movie title}**" – place the given movie title at the end of the array
* "**Swap {start index} {end index}**" – swap the tickets in the given index range and print: "**Swapped**!"
* "**End**" – the sorting is finished, and print movie titles left if there are any: "**Tickets left: {movie1}, {movie2}, {movie3}, …**"

In case there are no tickets left, print: "**The box office is empty**".

The sorting is complete when there are no more commands or you receive a command "**End**".

If a command does not match the pattern (unrecognized keyword, missing argument), it should be **ignored**.

Check if given **indexes** are **valid**.

### Input

* On the first line of the standard input, you will receive an integer **n.**
* On the following **n** lines, the movies themselves.
* You will be receiving different **commands**, each on a new line, until the "End" command is given.

### Output

On the first line print the remaining tickets in the array in the following format: "Tickets left: {movie1}, {movie2}, {movie3}, …"

In case there are no tickets left, print "The box office is empty".

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| cinema(['3','Avatar', 'Titanic', 'Joker', 'Sell', 'End', 'Swap 0 1']) | Avatar ticket sold!  Tickets left: Titanic , Joker |
| cinema(['5', 'The Matrix', 'The Godfather', 'The Shawshank Redemption', 'The Dark Knight', 'Inception', 'Add The Lord of the Rings', 'Swap 1 4', 'End']) | Swapped!  Tickets left: The Matrix, Inception, The Shawshank Redemption, The Dark Knight, The Godfather, The Lord of the Rings |
| cinema(['3', 'Star Wars’, 'Harry Potter’, 'The Hunger Games’], ['Sell’, 'Sell’, 'Sell’, 'End’]) | Star Wars ticket sold!  Harry Potter ticket sold!  The Hunger Games ticket sold!  The box office is empty |