QA Back-End Technologies Basics

Regular Exam II - 02.03.2024

2. **DVDs**

Alice has a collection of DVDs that she wants to organize. She has a list of genres that she likes and a list of commands that tell her how to arrange her DVDs. Write a function dvd collection(dvds) that solves this problem.

The function receives an array. As the first element of the input array, you will have an integer n

As the first element of the input array, you will have an integer n – the number of DVDs.

On the next **n** elements are the DVDs' names.

After you have successfully extracted the DVDs, you will be navigating through a series of commands, each as element of the input array.

The commands will be as follows:

- "Watch" command you must remove the DVD at the first position in the array and print: "{DVD title} DVD watched!"
- "Buy {DVD title}" add the given DVD title at the end of the array
- "Swap {start index} {end index}" swap the DVDs in the given index positions and print: "Swapped!"
- "Done" the organizing is finished, and print DVD titles left if there are any: "DVDs left: {DVD1}, {DVD2}, {DVD3}, ..."

In case there are no DVDs left, print: "The collection is empty".

The The program ends when there are no more commands or you receive a command "Done".

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

Check if given indexes are valid.

Input

- As first element of the input array, you will receive an integer n.
- On the following **n** elements, the DVDs themselves.
- You will be receiving different commands, as following element of the input array, until the "Done" command is given.

Output

On the first line print the remaining DVDs in the array in the following format: "DVDs left: {DVD1}, {DVD2}, {DVD3}, ..."

In case there are no DVDs left, print "The collection is empty".

















Examples

Input	Output
<pre>dvd_collection (['3', 'The Matrix', 'The Godfather', 'The Shawshank Redemption', 'Watch', 'Done', 'Swap 0 1'])</pre>	The Matrix DVD watched! DVDs left: The Godfather, The Shawshank Redemption
<pre>dvd_collection (['5', 'The Lion King', 'Frozen', 'Moana', 'Toy Story', 'Shrek', 'Buy Coco', 'Swap 2 4', 'Done'])</pre>	Swapped! DVDs left: The Lion King, Frozen, Shrek, Toy Story, Moana, Coco
<pre>dvd_collection (['5', 'The Avengers', 'Iron Man', 'Thor', 'Captain America', 'Black Panther', 'Watch', 'Watch', 'Watch', 'Watch', 'Done'])</pre>	The Avengers DVD watched! Iron Man DVD watched! Thor DVD watched! Captain America DVD watched! Black Panther DVD watched! The collection is empty













