Problem 2 - Array Modifier

Problem for exam preparation for the Programming Fundamentals Course @SoftUni.
Submit your solutions in the SoftUni judge system at https://judge.softuni.org/Contests/Practice/Index/2474#1.

You are given **an array with integers**. Write a program to **modify the elements** after **receiving the following commands**:

- **"swap {index1} {index2}"** takes **two elements** and **swap their places**.
- **"multiply {index1} {index2}"** takes **element at the 1st index** and **multiply it with the element at 2nd index**. **Save the product at the 1st index.**
- **"decrease"** **decreases all elements** in the array **with 1**.

Input

On the **first input line,** you will be given **the initial array values** separated by a single space.

On the **next lines** you will receive commands **until** you receive the **command "end"**. The **commands are** as follow:

- **"swap {index1} {index2}"**
- **"multiply {index1} {index2}"**
- **"decrease"**

Output

The output should be printed on the console and consist of **elements of the modified array** – **separated by a comma and a single space ", "**.

Constraints

- **Elements of the array** will be **integer numbers** in the range **[-2³¹...2³¹]**
- **Count of the array elements** will be in the range **[2...100]**
- **Indexes will be always in the range of the array**

Examples

Input	Output	Comments

23 -2 321 87 42 90 -123 swap 1 3 swap 3 6 swap 1 0 multiply 1 2 multiply 2 1 decrease end	86, 7382, 2369942, -124, 41, 89, -3	23 -2 321 87 42 90 -123 – initial values swap 1(-2) and 3(87) ▼ 23 87 321 -2 42 90 -123 swap 3(-2) and 6(-123) ▼ 23 87 321 -123 42 90 -2 swap 1(87) and 0(23) ▼ 87 23 321 -123 42 90 -2 multiply 1(23) 2(321) = 7383 ▼ 87 7383 321 -123 42 290 -2 multiply 2(321) 1(7383) = 2369943 ▼ 87 7383 2369943 -123 42 90 -2 decrease – all - 1 ▼ 86 7383 2369942 -124 41 89 -3
1 2 3 4 swap 0 1 swap 1 2 swap 2 3 multiply 1 2 decrease end	1, 11, 3, 0	

JS Examples

Input	Output	Comments

[
  '23 -2 321 87 42 90 -123',
  'swap 1 3',
  'swap 3 6',
  'swap 1 0',
  'multiply 1 2',
  'multiply 2 1',
  'decrease',
  'end'
]
	86, 7382, 2369942, -124, 41, 89, -3	23 -2 321 87 42 90 -123 – initial values
		
		swap 1(-2) and 3(87) ▼
		23 87 321 -2 42 90 -123
		
		swap 3(-2) and 6(-123) ▼
		23 87 321 -123 42 90 -2
		
		swap 1(87) and 0(23) ▼
		87 23 321 -123 42 90 -2
		
		multiply 1(23) 2(321) = 7383 ▼
		87 7383 321 -123 42 290 -2
		
		multiply 2(321) 1(7383) = 2369943 ▼
		87 7383 2369943 -123 42 90 -2
		
		decrease – all - 1 ▼
		86 7383 2369942 -124 41 89 -3

[
  '1 2 3 4',
  'swap 0 1',
  'swap 1 2',
  'swap 2 3',
  'multiply 1 2',
  'decrease',
  'end'
]
	1, 11, 3, 0	