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

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) \blacktriangledown 23 87 321 -2 42 90 -123 swap 3(-2) and 6(-123) \blacktriangledown 23 87 321 -123 42 90 -2 swap 1(87) and 0(23) \blacktriangledown 87 23 321 -123 42 90 -2 multiply 1(23) 2(321) = 7383 \blacktriangledown 87 7383 321 -123 42 290 -2 multiply 2(321) 1(7383) = 2369943 \blacktriangledown 87 7383 2369943 -123 42 90 -2 decrease – all - 1 \blacktriangledown 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	













