Programming for Beginners – 24 April 2016

Problem 4. Array Modifier

You are given an array with integers. Write a program to modify the elements after receive the commands "swap", "multiply" or "decrease".

- "swap {index1} {index2}" take two elements and swap their places.
- "multiply {index1} {index2}" take element at the 1st index and multiply it with 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 element of the modified array – separated by ", "(comma and single space).

Constraints

- Commands will be: "swap", "multiply", "decrease" and "end"
- 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	86, 7382, 2369942,	23 -2 321 87 42 90 -123 - initial values
swap 1 3 swap 3 6	-124, 41, 89, -3	swap 1 <mark>(-2)</mark> and 3 <mark>(87) ▼</mark> 23 <mark>87</mark> 321 <mark>-2</mark> 42 90 -123
<pre>swap 1 0 multiply 1 2 multiply 2 1</pre>		swap 3 <mark>(-2)</mark> and 6 <mark>(-123)</mark> ▼ 23 87 321 <mark>-123</mark> 42 90 <mark>-2</mark>
decrease end		swap 1(87) and 0(23) ▼ 87 23 321 -123 42 90 -2
		multiply 1 <mark>(23)</mark> 2 <mark>(321)</mark> = 7383 ▼ 87 <mark>7383</mark> 321 -123 42 290 -2
		multiply 2 <mark>(321)</mark> 1 <mark>(7383)</mark> = 2369943 ▼ 87 7383 <mark>2369943</mark> -123 42 90 -2
		decrease - <mark>all - 1</mark> ▼ 86 7383 2369942 -124 41 89 -3



















