



## ☆ Array Special Product



Implement a function which, given an array of integers, returns a new array for which every index carries the value of the product of the remaining elements.

- Programming -

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1

### Example

Given array [1, 3, 2, 4, 5] it would return [120, 40, 60, 30, 24]

Given array [4, 10, 3] it would return [30, 12, 40]

2

- Problem  
Solving -

### Function Description

The function findSpecialProduct accepts the following parameters

- An array of integers "input" of size n.

The function must return a new array of size n in which every index carries the value of the product of the remaining elements.

4

### Input Format

n # 1<sup>st</sup> line specifies the number of elements on the array

in[1] # Next n lines has a list of integers.

in[2]

..

in[n]

8

### Output Format

out[1] # output has an array of n integers with each integer in a line.

out[2]

...

out[n]

11

### Constraints

Division operator cannot be used.

- Advanced - Expected time complexity is strictly O(n)

13

0 <= n <= 5

0 <= in[i] <= 10; 0 <= i < n

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### Sample Input values

5

1

2

3

4

5

15

### Sample Output values

120

60

40

30

24

YOUR ANSWER



**i** For help on how to read input and write output in C, [click here](#).



- Programming

[View Code Diff](#)

C



```
19
20 /*
21  * Complete the 'findSpecialProduct' function below.
22  *
23  * The function is expected to return an INTEGER_ARRAY.
24  * The function accepts INTEGER_ARRAY inputArray as parameter.
25  */
26
27 /*
28  * To return the integer array from the function, you should:
29  *   - Store the size of the array to be returned in the result_count variable
30  *   - Allocate the array statically or dynamically
31  *
32  * For example,
33  * int* return_integer_array_using_static_allocation(int* result_count) {
34  *     *result_count = 5;
35  *
36  *     static int a[5] = {1, 2, 3, 4, 5};
37  *
38  *     return a;
```

Line: 19 Col: 1

☐ Test against custom input[Run Code](#)[Submit code & Continue](#)

(You can submit any number of times)

[Download sample test cases](#) The input/output files have Unix line endings. Do not use Notepad to edit them on windows.

- Advanced -

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