Daily Coding Problem

Good morning! Here's your coding interview problem for today.

This problem was asked by Uber.

Given an array of integers, return a new array such that each element at index i of the new array is the product of all the numbers in the original array except the one at i.

For example, if our input was [1, 2, 3, 4, 5], the expected output would be [120, 60, 40, 30, 24]. If our input was [3, 2, 1], the expected output would be [2, 3, 6].

Follow-up: what if you can't use division?

Follow-up, can't use division

$$I = [i_0, i_1, i_2, ..., i_n]$$

$$O = [o_0, o_0, o_2, ..., o_n] \text{ s.t. } O_p = (\pi i)/i_k$$

$$F.U. : O = [1]$$

$$O = [i_1, i_0]$$

$$O = [i_1, i_0, ..., i_0]$$

$$O = [i_1, i_0, i_0, ..., i_0]$$

O- [11.12, 10.12, 10.14, TI ..., TT] TT = 10.14, 12