Product of Array Except Self

For this problem we must compute product of all elements except nums[i] in O(n) time, no division and ideally O(1) extra space (excluding result array).

Approach: Prefix and Suffix Products:

Idea: - answer[i] = product of all elements to the left of i x product of all elements to the right of i.

Steps:
1. First pass (left products):
   Fill answer[i] with product of all elements to the left of i.
2. Second pass (right products):
   Multiply answer[i] by product of elements to the right (maintained in a variable).

Complexity:
- Time: O(n) (2 passes)
- Space: O(1) extra space (output array not counted).