Given an integer n, break it into the sum of k **positive integers**, where k >= 2, and maximize the product of those integers.

Return *the maximum product you can get*.

**Example 1:**

Input: n = 2  
Output: 1  
Explanation: 2 = 1 + 1, 1 × 1 = 1.

**Example 2:**

Input: n = 10  
Output: 36  
Explanation: 10 = 3 + 3 + 4, 3 × 3 × 4 = 36.

**Constraints:**

* 2 <= n <= 58