# 3492. Maximum Containers on a Ship

Solved

Easy 🔊 Topics 🕜 Hint

You are given a positive integer n representing an  $n \times n$  cargo deck on a ship. Each cell on the deck can hold one container with a weight of **exactly** w.

However, the total weight of all containers, if loaded onto the deck, must not exceed the ship's maximum weight capacity, maxWeight.

Return the **maximum** number of containers that can be loaded onto the ship.

## **Example 1:**

**Input:** n = 2, w = 3, maxWeight = 15

Output: 4

#### **Explanation:**

The deck has 4 cells, and each container weighs 3. The total weight of loading all containers is 12, which does not exceed maxWeight.

# Example 2:

Input: n = 3, w = 5, maxWeight = 20

Output: 4

#### **Explanation:**

The deck has 9 cells, and each container weighs 5. The maximum number of containers that can be loaded without exceeding maxWeight is 4.

### **Constraints:**

- 1 <= n <= 1000
- 1 <= w <= 1000
- 1 <= maxWeight <= 10<sup>9</sup>

Seen this question in a real interview before? 1/5

Yes No

Hint 2

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Topics

Hint 1

Discussion (16)

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