

2554. Maximum Number of Integers to Choose From a Range I

Hint 

Medium



144

7



Companies

You are given an integer array `banned` and two integers `n` and `maxSum`. You are choosing some number of integers following the below rules:

- The chosen integers have to be in the range `[1, n]`.
- Each integer can be chosen **at most once**.
- The chosen integers should not be in the array `banned`.
- The sum of the chosen integers should not exceed `maxSum`.

Return the **maximum** number of integers you can choose following the mentioned rules.

Example 1:

Input: `banned = [1,6,5]`, `n = 5`, `maxSum = 6`

Output: 2

Explanation: You can choose the integers 2 and 4.

2 and 4 are from the range `[1, 5]`, both did not appear in `banned`, and their sum is 6, which did not exceed `maxSum`.

Example 2:

Input: `banned = [1,2,3,4,5,6,7]`, `n = 8`, `maxSum = 1`

Output: 0

Explanation: You cannot choose any integer while following the mentioned conditions.

Example 3:

Input: `banned = [11]`, `n = 7`, `maxSum = 50`

Output: 7

Explanation: You can choose the integers 1, 2, 3, 4, 5, 6, and 7.

They are from the range `[1, 7]`, all did not appear in `banned`, and their sum is 28, which did not exceed `maxSum`.

Constraints:

- `1 <= banned.length <= 104`
- `1 <= banned[i], n <= 104`
- `1 <= maxSum <= 109`

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