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

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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.

User Accepted:	11414
User Tried:	12903
Total Accepted:	11883
Total Submissions:	24572
Difficulty:	Medium

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
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 <= 10<sup>4</sup>
• 1 <= banned[i], n <= 10^4
• 1 <= maxSum <= 10<sup>9</sup>
```

Discuss (https://leetcode.com/problems/maximum-number-of-integers-to-choose-from-a-range-i/discuss)

```
d c
JavaScript
 1 ▼ const maxCount = (banned, n, maxSum) => {
 2
        let ban = new Set(banned), a = [], pick = new Set(), cur = 0;
 З ч
        for (let i = 1; i <= n; i++) {
            if (!ban.has(i)) a.push(i);
 4
 5
 6 ▼
        for (const x of a) {
 7
            if (cur + x \le maxSum) {
 8
                 cur += x;
 9
                 pick.add(x);
10 •
            } else {
11
                 break;
12
13
14
        return pick.size;
15
   };
```