

6160. Longest Subsequence With Limited Sum

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You are given an integer array `nums` of length `n`, and an integer array `queries` of length `m`.

Return an array `answer` of length `m` where `answer[i]` is the **maximum** size of a **subsequence** that you can take from `nums` such that the **sum** of its elements is less than or equal to `queries[i]`.

A **subsequence** is an array that can be derived from another array by deleting some or no elements without changing the order of the remaining elements.

User Accepted: 251

User Tried: 272

Total Accepted: 251

Total Submissions: 275

Difficulty: Easy

Example 1:

Input: `nums = [4,5,2,1]`, `queries = [3,10,21]`

Output: `[2,3,4]`

Explanation: We answer the queries as follows:

- The subsequence `[2,1]` has a sum less than or equal to 3. It can be proven that 2 is the maximum size of such a subsequence, so `answer[0] = 2`.
- The subsequence `[4,5,1]` has a sum less than or equal to 10. It can be proven that 3 is the maximum size of such a subsequence, so `answer[1] = 3`.
- The subsequence `[4,5,2,1]` has a sum less than or equal to 21. It can be proven that 4 is the maximum size of such a subsequence, so `answer[2] = 4`.

Example 2:

Input: `nums = [2,3,4,5]`, `queries = [1]`

Output: `[0]`

Explanation: The empty subsequence is the only subsequence that has a sum less than or equal to 1, so `answer[0] = 0`.

Constraints:

- `n == nums.length`
- `m == queries.length`
- `1 <= n, m <= 1000`
- `1 <= nums[i], queries[i] <= 106`

JavaScript

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⚙️

```
1 const answerQueries = (a, b) => {
2   let res = [];
3   a.sort((x, y) => x - y);
4   for (const q of b) {
5     let cur = 0, pick = 0;
6     for (const x of a) {
7       if (cur + x <= q) {
8         cur += x;
9         pick++;
10      } else {
11        break;
12      }
13    }
14    res.push(pick);
15  }
16  return res;
17 };
```

☐ Custom Testcase

Use Example Testcases

Submission Result: **Accepted** (/submissions/detail/785182119/) ⓘ

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