Two Sum [Amazon Python Interview Question]

Given an list of integers called input, and an integer target, return the index of the two numbers which sum up to the target. Do not use the same list element twice.

Clarifications:

- Assume there aren't multiple valid solutions.
- In case there is no valid solution, return [-1, -1].
- Return the indexes in increasing order (i.e. [1,3], NOT [3,1]).

Example #1

Input: input = [1, 4, 6, 10], target = 10

Output: [1, 2]

Explanation: Because 4 + 6 == 10, we return the index of elements 4 and 6, which is [1, 2]

Example #2

Input: input = [1, 4, 6, 10], target = 11

Output: [0, 3]

Explanation: Because input[0] + input[3] == 11, we return [0, 3].

Example #3

**Input: **input = [1, 4, 6, 10], target = 2

Output: [-1, -1]

Explanation: There are no two elements we can pick that sum up to 2. Remember, you can't use the same element twice!