

LeetCode questions (Sandwich edition xD)

Two Sum

Can you solve this real interview question? Two Sum - Given an array of integers `nums` and an integer `target`, return indices of the two numbers such that they add up to `target`.

You may assume that each input would have exactly one solution, and you may not use the same element twice.

You can return the answer in any order.

Example 1:

Input: `nums = [2,7,11,15]`, `target = 9`

Output: `[0,1]`

Explanation: Because `nums[0] + nums[1] == 9`, we return `[0, 1]`.

Example 2:

Input: `nums = [3,2,4]`, `target = 6`

Output: `[1,2]`

Example 3:

Input: nums = [3,3], target = 6

Output: [0,1]

Constraints:

- * $2 \leq \text{nums.length} \leq 104$

- * $-109 \leq \text{nums}[i] \leq 109$

- * $-109 \leq \text{target} \leq 109$

- * Only one valid answer exists.

Follow-up: Can you come up with an algorithm that is less than $O(n^2)$ time complexity?