1. Two Sum ★

Question Editorial Solution

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Total Accepted: 289177 Total Submissions: 1103411 Difficulty: Easy

Given an array of integers, return indices of the two numbers such that they add up to a specific target.

You may assume that each input would have *exactly* one solution.

Example:

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

Because nums[0] + nums[1] = 2 + 7 = 9,

return [0, 1].
```

UPDATE (2016/2/13):

The return format had been changed to **zero-based** indices. Please read the above updated description carefully.

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```
class Solution {
 1
    public:
         vector<int> twoSum(vector<int>& nums, int target) {
 3
 4
             vector<int> twoSumIndex;
 5
             if (nums.size() < 2)
 6
                  return twoSumIndex;
 7
             unordered_map<int, int> hash;
 8
             for (int i = 0, n = nums.size(); i < n; ++i)
 9
                  hash.insert(pair<int, int>(nums[i], i));
10
11
12
             for (int i = 0, n = nums.size(); i < n; ++i) {
13
                  auto solIter = hash.find(target - nums[i]);
                      soliter ! hash end()) {
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if (i == soliter->second)
                  if (solIter ! hash end
14
15
```

□ Notes

```
16
                           continue;
  17
                      twoSumIndex.push_back(i);
                      twoSumIndex.push_back(solIter->second);
  18
  19
                      return twoSumIndex;
  20
                   }
  21
  22
               return twoSumIndex;
  23
           }
  24
       };
                                                                       Submit Solution
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```

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