[**Two Sum**](https://leetcode.com/problems/two-sum/)

**package** leetcodeEasy;

**import** java.util.\*;

**public** **class** TwoSum {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int**[] nums = {2,7,11,15};

**int**[] result = *twoSum*(nums, 9);

**for**(**int** i : result) {

System.***out***.print(i + " ");

}

}

**public** **static** **int**[] twoSum(**int**[] nums, **int** target) {

**if**(nums == **null** || nums.length == 0) {

**return** **new** **int**[]{};

}

HashMap<Integer , Integer> map = **new** HashMap<>();

**for**(**int** i = 0 ; i < nums.length ; i++) {

**if**(map.containsKey(target - nums[i])) {

**return** **new** **int**[]{map.get(target - nums[i]), i};

}

map.put(nums[i] , i);

}

**return** **new** **int**[]{};

}

}

Time Complexity : O(n) , n is number of elements in array

Space Complexity : O(n), n is number of elements in array