
Đã bắt đầu vào Thứ sáu, 15 Tháng chín 2023, 8:10 PM
lúc

Tình trạng Đã hoàn thành

Hoàn thành vào Thứ tư, 4 Tháng mười 2023, 10:46 AM
lúc

Thời gian thực 18 ngày 14 giờ
hiện

Điểm 8,10/9,00

Điểm **9,00** của 10,00 (**90%**)

Câu hỏi**1**

Chính xác

Điểm 1,00 của
1,00

The prices of all cars of a car shop have been saved as an array called N. Each element of the array N is the price of each car in shop. A person, with the amount of money k want to buy as much cars as possible.

Request: Implement function

```
buyCar(int* nums, int length, int k);
```

Where `nums` is the array N, `length` is the size of this array and `k` is the amount of money the person has. Find the maximum cars this person can buy with his money, and return that number.

Example:

```
nums=[90, 30, 20, 40, 50]; k=90;
```

The result is 3, he can buy the cars having index 1, 2, 3 (first index is 0).

Note: The library `iostream`, 'algorithm' and using namespace `std` have been used. You can add other functions but you are not allowed to add other libraries.

For example:

Test	Result
<pre>int nums[] = {90,30,40,90,20}; int length = sizeof(nums)/sizeof(nums[0]); cout << buyCar(nums, length, 90) << "\n";</pre>	3

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)**Reset answer**

```

1 ↓ int buyCar(int* nums, int length, int k) {
2     sort (nums, nums + length);
3     int res = 0;
4     int ans = 0;
5 ↓     for (int i = 0; i < length; i++){
6         res += nums[i];
7 ↓         if (res <= k) {
8             ans++;
9         }
10        else break;

```

```
11 }  
12 return ans;  
13 }
```

	Test	Expected	Got	
✓	int nums[] = {90,30,40,90,20}; int length = sizeof(nums)/sizeof(nums[0]); cout << buyCar(nums, length, 90) << "\n";	3	3	✓

Passed all tests! ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi**2**

Chính xác

Điểm 1,00 của
1,00

Given an array of integers.

Your task is to implement a function with following prototype:

```
bool consecutiveOnes(vector<int>& nums);
```

The function returns if all the 1s appear consecutively in `nums`.**Note:**

- The `iostream` and `vector` libraries have been included and `namespace std` is being used. No other libraries are allowed.
- You can write helper functions.

For example:

Test	Result
<pre>vector<int> nums {0, 1, 1, 1, 9, 8}; cout << consecutiveOnes(nums);</pre>	1

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)**Reset answer**

```

1  bool consecutiveOnes(vector<int>& nums) {
2      int dem = 0;
3      int pos = 0;
4      for (int i = nums.size() - 1; i >= 0; i--){
5          if (nums[i] == 1){
6              pos = i;
7              dem++;
8          }
9      }
10     vector <int> v;
11     for (int i = pos; i < nums.size(); i++){
12         if (nums[i] != 1) {
13             break;
14         }
15         v.push_back(nums[i]);
}

```

```
10
17     }
18 }
```

	Test	Expected	Got	
✓	vector<int> nums {0, 1, 1, 1, 9, 8}; cout << consecutiveOnes(nums);	1	1	✓
✓	vector<int> nums {}; cout << consecutiveOnes(nums);	1	1	✓
✓	vector<int> nums {0, 1, 1, 1, 2, 2, 2, 4, 5, 5, 5, 5, 5, 6, 6, 6, 6, 7, 7, 8}; cout << consecutiveOnes(nums);	1	1	✓
✓	vector<int> nums {0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 5, 5, 5, 5, 5, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9}; cout << consecutiveOnes(nums);	1	1	✓

	Test	Expected	Got	
✓	vector<int> nums {3, 0, 8, 8, 2, 9, 0, 4, 8, 4, 0, 9, 5, 0, 5, 9, 6, 2, 5, 4, 5, 1, 6, 6, 1, 0, 2, 6, 8, 4, 7, 7, 2, 5, 4, 7, 4, 1, 4, 3, 5, 5, 6, 5, 8, 6, 1, 7, 8, 4, 6, 6, 1, 2, 2, 5, 0, 6, 3, 6, 8, 2, 8, 6, 1, 1, 8, 6, 7, 7, 4, 6, 9, 2, 5, 0, 2, 9, 8, 9, 5, 0, 9, 8, 0, 7, 3, 3, 1, 8, 2, 2, 9, 5, 5, 6, 3, 0, 2, 5, 5, 3, 7, 2, 7, 4, 8, 4, 2, 4, 5, 2, 0, 0, 6, 4, 6, 4, 9, 9, 7, 3, 9, 1, 9, 4, 4, 0, 8, 4, 1, 4, 0, 0, 9, 6, 5, 0, 4, 4, 6, 3, 1, 9, 5, 2, 0, 8, 7, 9, 6, 7, 5, 8, 3, 9, 3, 7, 2, 0, 6, 1, 0, 9, 6, 0, 5, 3, 0, 6, 6, 9, 4, 2, 7, 0, 4, 5, 9, 6, 8, 3, 9, 0, 5, 1, 0, 8, 1, 5, 9, 1, 5, 2, 4, 4, 2, 7, 9, 4, 6, 6, 3, 3, 8, 6, 8, 2, 1, 5, 8, 4, 0, 5, 9, 5, 5, 2, 2, 3, 1, 8, 6, 3, 1, 2, 2, 3, 2, 4, 4, 1, 4, 4, 8, 6, 4, 1, 2, 6, 6, 5, 5, 2, 5, 3, 2, 6, 4, 5, 2, 3, 9, 6, 0, 8, 8, 9, 1, 7, 0, 3, 4, 8, 4, 1, 7, 9, 2, 9, 4, 6, 3, 5, 9, 8, 6, 1, 8, 2, 7, 2, 1, 5, 3, 0, 6, 8, 0, 1, 6, 1, 1, 6, 0, 6, 5, 8, 9, 3, 2, 1, 3, 3, 6, 1, 7, 9, 5, 9, 0, 2, 0, 6, 9, 1, 9, 0, 7, 4, 6, 4, 3, 2, 3, 5, 1, 4, 1, 6, 1, 9, 0, 8, 8, 4, 4, 6, 6, 4, 0, 2, 6, 6, 6, 9, 2, 9, 6, 7, 9, 2, 8, 5, 3, 4, 7, 3, 8, 7, 3, 2, 8, 1, 9, 8, 3, 5, 1, 2, 1, 0, 7, 2, 7, 1, 1, 3, 1, 7, 0, 7, 3, 6, 0, 7, 1, 7, 2, 1, 2, 7, 1, 2, 7, 7, 3, 1, 4, 8, 3, 7, 9, 9, 6, 1, 0, 3, 7, 6, 4, 4, 9, 6, 1, 5, 6, 3, 0, 4, 0, 7, 5, 0, 1, 0, 1, 9, 1, 1, 9, 4, 4, 2, 9, 7, 2, 2, 7, 2, 5, 6, 4, 5, 9, 3, 4, 6, 4, 7, 8, 6, 9, 0, 2, 9, 4, 3, 6, 6, 8, 6, 4, 0, 3, 7, 3, 0, 0, 0, 0, 0, 0, 5, 9, 0, 2, 3, 6, 9, 5, 6, 4, 5, 7, 3, 3, 2, 7, 1, 3, 2, 2, 7, 1, 6, 4, 8, 6, 7, 9, 4, 3, 1, 5, 8, 8, 9, 3, 1, 0, 9, 3, 8, 3, 4, 6, 7, 3, 7, 2, 9, 9, 1, 9, 4, 5, 3, 9, 0, 1, 3, 4, 6, 7, 7, 0, 9, 7, 0, 7, 3, 5, 1, 9, 0, 9, 9, 8, 5, 9, 2, 0, 9, 2, 9, 4, 7, 1, 4, 5, 4, 7, 5, 8, 8, 8, 7, 0, 3, 1, 8, 7, 5, 6, 6, 8, 6, 2, 6, 6, 4, 4, 0, 8, 3, 5, 4, 8, 8, 1, 4, 3, 9, 2, 5, 5, 5, 3, 6, 7, 0, 4, 5, 5, 9, 6, 0, 2, 8, 7, 4, 5, 2, 1, 0, 2, 7, 6, 4, 4, 2, 0, 0, 9, 4, 1, 4, 2, 6, 7, 8, 1, 7, 6, 9, 6, 9, 1, 8, 4, 5, 2, 2, 0, 9, 3, 8, 1, 4, 4, 9, 4, 3, 3, 5, 5, 7, 7, 7, 8, 4, 5, 6, 5, 2, 8, 6, 3, 1, 6, 0, 8, 2, 9, 2, 1, 0, 9, 5, 5, 2, 5, 3, 7, 2, 6, 8, 9, 2, 0, 1, 4, 4, 9, 3, 1, 1, 4, 9, 3, 1, 7, 7, 9, 7, 6, 7, 4, 5, 0, 9, 8, 7, 5, 4, 2, 6, 1, 9, 5, 8, 6, 3, 2, 5, 4, 0, 4, 0, 6, 9, 0, 6, 1, 8, 3, 9, 8, 1, 2, 5, 7, 3, 2, 1, 7, 2, 1, 8, 4, 8, 2, 3, 6, 5, 5, 0, 7, 6, 7, 9, 4, 2, 9, 5, 9, 0, 2, 5, 9, 1, 3, 1, 1, 4, 9, 3, 1, 7, 7, 9, 8, 9, 8, 3, 7, 8, 6, 8, 8, 2, 8, 7, 8, 2, 0, 5, 7, 3, 4, 0, 7, 4, 4, 1, 8, 8, 4, 0, 6, }	0	0	✓

Test	Expected	Got
6, 5, 5, 3, 1, 7, 8, 9, 5, 9, 7, 9, 5, 5, 9, 5, 5, 5, 9, 4, 4, 0, 7, 5, 0, 4, 9, 1, 3, 2, 2, 3, 9, 8, 2, 2, 9, 0, 6, 1, 4, 6, 9, 0, 9, 4, 9, 8, 2, 0, 8, 1, 0, 8, 1, 4, 8, 9, 5, 1, 1, 0, 6, 2, 7, 0, 5, 5, 1, 6, 0, 8, 2, 0, 3, 7, 2, 1, 1, 9, 7, 2, 3, 7, 2, 1, 0, 4, 1, 4, 7, 3, 7, 9, 2, 0, 5, 3, 8, 5, 6, 8, 0, 3, 3, 2, 0, 2, 8, 9, 3, 6, 3, 5, 1, 6, 8, 8, 1, 1, 0, 9, 1, 5, 4, 6, 0, 4, 6, 6, 3, 4, 0, 7, 8, 8, 5, 8, 3, 1, 7, 8, 2, 9, 3, 9, 1, 4, 4, 3, 3, 0, 6, 9, 1, 6, 6, 4, 1, 2, 6, 0, 0, 6, 1, 2, 1, 3, 6, 0, 4, 1, 8, 9, 3, 9, 7, 1, 0, 0, 0, 6, 8, 3, 5, 3, 3, 8, 7, 0, 8, 5, 7, 2, 9, 8, 9, 2, 8, 9, 7, 7, 5, 0, 6, 9, 8, 9, 9, 3, 1, 7, 1, 5, 2, 9, 5, 4, 1, 8, 4, 5, 9, 3, 9, 1, 9, 5, 0, 4, 9, 7, 7, 3, 6, 8, 8, 7, 8, 1, 8, 2, 4, 5, 3, 5, 3, 8, 3, 7, 5, 3, 9, 7, 3, 2, 3, 2, 5, 9, 5, 1, 9, 7, 8, 7, 9, 7, 8, 2, 3, 2, 4, 3, 3, 7, 6, 1, 0, 1, 9, 5, 7, 8, 0, 9, 3, 5, 5, 3, 2, 5, 2, 3, 3, 0, 0, 2, 2, 1, 1, 8, 8, 4, 3, 3, 8, 3, 4, 2, 7, 0, 7, 3, 3, 8, 9, 0, 4, 0, 3, 5, 6, 1, 9, 1, 5, 0, 4, 5, 3, 0, 3, 0, 0, 7, 4, 1, 1, 5, 5, 7, 2, 9, 0, 7, 3, 1, 5, 3, 4, 3, 2, 7, 2, 5, 0, 9, 3, 1, 2, 7, 4, 8, 2, 2, 7, 7, 7, 0, 9, 1, 4, 4, 2, 0, 4, 2, 6, 0, 3, 3, 7, 2, 8, 4, 0, 5, 0, 9, 6, 7, 6, 1, 9, 8, 1, 9, 2, 6, 8, 7, 9, 7, 2, 7, 8, 5, 0, 7, 5, 0, 1, 3, 3, 3, 8, 7, 1, 7, 2, 2, 1, 8, 5, 0, 1, 0, 0, 3, 2, 4, 2, 8, 1, 5, 8, 5, 8, 1, 8, 9, 9, 9, 3, 4, 8, 5, 0, 7, 4, 9, 8, 1, 9, 3, 5, 5, 3, 6, 3, 5, 3, 0, 5, 0, 9, 5, 8 ...snip..., 3, 5, 8, 2, 3, 6, 0, 6, 8, 8, 8, 8, 0, 6, 4, 5, 9, 0, 0, 2, 0, 5, 4, 9, 5, 7, 4, 9, 1, 6, 1, 4, 3, 6, 7, 2, 4, 9, 1, 3, 0, 5, 3, 0, 7, 2, 3, 7, 2, 2, 7, 4, 5, 9, 0, 2, 9, 0, 9, 7, 7, 5, 8, 7, 0, 6, 6, 3, 6, 3, 0, 3, 6, 4, 2, 8, 2, 8, 6, 9, 5, 6, 9, 4, 7, 2, 2, 4, 1, 8, 2, 7, 8, 7, 0, 3, 6, 6, 8, 2, 3, 2, 5, 9, 7, 3, 8, 7, 9, 3, 0, 2, 4, 2, 5, 9, 3, 9, 1, 8, 9, 1, 8, 7, 7, 8, 4, 3, 9, 7, 6, 0, 2, 6, 8, 7, 2, 1, 6, 4, 0, 1, 7, 5, 8, 0, 7, 2, 9, 0, 2, 4, 1, 2, 6, 2, 5, 4, 7, 9, 6, 5, 1, 7, 3, 4, 2, 1, 3, 6, 0, 9, 5, 8, 2, 6, 2, 8, 2, 3, 1, 7, 4, 4, 8, 3, 9, 1, 2, 7, 4, 5, 7, 8, 5, 2, 8, 2, 8, 2, 3, 0, 1, 8, 2, 9, 2, 9, 0, 8, 9, 9, 9, 4, 3, 3, 6, 8, 6, 8, 5, 6, 0, 6, 7, 2, 6, 9, 9, 1, 7, 7, 6, 3, 4, 7, 7, 2, 0, 9, 9, 0, 5, 3, 5, 8, 2, 9, 4, 8, 7, 9, 0, 4, 8, 7, 8, 4, 6, 5, 0, 1, 8, 3, 3, 4, 0, 5, 3, 8, 9, 6, 7, 3, 3, 0, 9, 9, 8, 0, 8, 7, 9, 0, 5, 3, 1, 8, 5, 6, 8, 9, 5, 0, 1, 2, 6, 4, 6, 2, 6, 3, 4, 6, 4, 8, 0, 8, 7, 5, 2, 0, 1, 6, 0, 5, 1, 5, 3, 4, 2, 4, 5, 9, 4, 7, 0, 8, 7, 7, 5, 6, 5, 5, 0, 7, 2, 7, 3, 7, 3, 1, 7, 6, 5, 3, 4, 4, 4, 9, 1, 4, 7, 7, 6, 4, 5, 6, 8, 1, 8, 1, 0, 2, 7, 7, 4, 4, 1, 2, 8, 0, 7, 0, 4, 3, 2, 0, 0, 9, 4, 3, 8, 2, 6, 2, 2, 8, 8, 2, 5, 5,		

Test	Expected	Got
1, 0, 5, 5, 6, 5, 1, 8, 9, 2, 4, 6, 4, 6, 4, 5, 8, 0, 9, 2, 7, 5, 9, 3, 5, 3, 3, 8, 4, 1, 0, 8, 2, 3, 3, 3, 0, 6, 3, 7, 8, 3, 6, 9, 8, 5, 6, 4, 4, 9, 6, 3, 3, 2, 7, 8, 9, 8, 5, 5, 9, 5, 4, 5, 5, 5, 8, 8, 7, 8, 0, 3, 1, 0, 5, 9, 8, 6, 2, 9, 0, 0, 5, 2, 4, 9, 4, 5, 7, 6, 4, 7, 7, 5, 7, 2, 1, 7, 1, 6, 1, 9, 7, 4, 4, 2, 3, 0, 2, 7, 9, 1, 2, 1, 7, 3, 1, 3, 9, 0, 3, 7, 7, 5, 5, 2, 7, 5, 1, 8, 9, 0, 2, 7, 0, 5, 1, 2, 7, 8, 1, 9, 4, 7, 0, 0, 7, 3, 6, 4, 4, 0, 4, 4, 3, 6, 6, 4, 6, 6, 7, 0, 4, 5, 9, 7, 7, 5, 0, 7, 3, 0, 4, 6, 1, 6, 2, 5, 5, 7, 6, 8, 3, 6, 1, 8, 6, 1, 6, 5, 4, 2, 6, 3, 1, 1, 6, 9, 8, 3, 1, 8, 2, 4, 6, 1, 5, 7, 5, 4, 2, 1, 2, 4, 1, 3, 5, 7, 5, 5, 2, 3, 3, 7, 8, 1, 1, 6, 8, 5, 2, 8, 1, 9, 2, 1, 9, 6, 5, 9, 0, 5, 1, 4, 7, 0, 2, 0, 2, 3, 3, 1, 5, 5, 2, 4, 4, 0, 1, 5, 2, 7, 1, 8, 2, 2, 2, 2, 8, 0, 7, 3, 1, 0, 2, 1, 9, 8, 4, 4, 9, 7, 2, 0, 5, 9, 7, 4, 1, 6, 5, 2, 1, 3, 3, 6, 1, 0, 2, 6, 0, 9, 7, 2, 5, 2, 1, 1, 6, 3, 8, 0, 0, 5, 4, 3, 1, 9, 6, 2, 7, 7, 8, 5, 7, 3, 8, 3, 7, 2, 8, 1, 2, 1, 4, 2, 2, 6, 5, 7, 9, 6, 1, 6, 0, 3, 0, 9, 5, 3, 5, 1, 6, 1, 9, 4, 8, 6, 0, 0, 0, 1, 7, 7, 1, 8, 4, 3, 0, 3, 1, 9, 1, 0, 5, 6, 2, 8, 8, 0, 1, 9, 4, 9, 9, 7, 3, 5, 6, 0, 1, 5, 7, 1, 6, 9, 8, 6, 7, 3, 3, 0, 0, 6, 9, 7, 9, 9, 0, 7, 8, 9, 5, 1, 0, 6, 5, 7, 2, 1, 8, 9, 8, 3, 9, 4, 4, 0, 7, 3, 2, 0, 7, 9, 5, 5, 0, 4, 9, 5, 6, 0, 5, 4, 1, 5, 7, 3, 5, 9, 2, 8, 3, 5, 8, 3, 6, 9, 2, 7, 5, 6, 6, 7, 4, 6, 5, 5, 4, 1, 2, 2, 6, 1, 6, 0, 1, 3, 4, 8, 7, 5, 4, 3, 1, 2, 4, 5, 2, 8, 6, 4, 4, 8, 5, 6, 1, 2, 6, 7, 2, 4, 8, 0, 8, 4, 3, 4, 3, 5, 0, 7, 9, 3, 5, 0, 8, 6, 7, 9, 3, 3, 7, 9, 9, 1, 0, 7, 4, 6, 5, 3, 7, 6, 1, 0, 0, 4, 8, 2, 2, 7, 6, 6, 2, 0, 0, 4, 1, 1, 4, 8, 7, 0, 8, 5, 7, 0, 3, 9, 2, 5, 7, 4, 2, 3, 7, 5, 6, 9, 4, 6, 3, 2, 6, 3, 5, 5, 3, 5, 0, 6, 5, 9, 1, 2, 5, 8, 9, 8, 3, 5, 8, 5, 4, 9, 0, 7, 1, 9, 9, 4, 7, 7, 2, 6, 3, 2, 3, 5, 0, 5, 7, 8, 4, 7, 4, 5, 5, 7, 8, 7, 3, 9, 3, 6, 6, 5, 0, 9, 0, 2, 8, 1, 3, 7, 3, 5, 2, 7, 6, 0, 8, 3, 8, 8, 7, 7, 5, 0, 9, 6, 6, 4, 2, 5, 3, 0, 6, 2, 6, 0, 4, 2, 3, 4, 6, 4, 9, 7, 2, 4, 7, 7, 2, 0, 5, 6, 2, 4, 2, 0, 9, 5, 3, 6, 5, 2, 7, 6, 9, 4, 0, 1, 8, 1, 6, 2, 1, 7, 0, 6, 4, 8, 8, 8, 7, 6, 0, 0, 4, 4, 3, 6, 0, 8, 6, 7, 1, 8, 8, 8, 4, 6, 9, 9, 5, 6, 7, 9, 7, 1, 0, 0, 3, 1, 2, 7, 6, 6, 9, 7, 6, 7, 1, 9, 1, 2, 6, 9, 1, 0, 6, 8, 1, 0, 8, 6, 3, 5, 0, 9, 0, 8, 6, 6, 9, 2, 4, 7, 8, 0, 9, 5, 5, 8, 1, 8, 3, 1, 1, 9, 9, 3, 3, 7, 8, 4, 9, 9, 0, 1, 7, 2, 2, 0, 3, 2, 3, 1, 0, 0, 2, 4, 9, 6, 6, 9, 8, 8, 9, 8, 3, 8, 7, 2, 6, 0, 3, 1, 0, 5, 9, 1, 0, 8, 4, 6, 0, 1, 4, 5, 7, 3, 2, 9, 0, 4, 9, 3, 2, 3, 3, 7, 4, 8, 0,		

	Test	Expected	Got
	9, 7, 9, 1, 2, 7, 9, 1, 6, 1, 3, 2, 2, 2, 8, 7, 6, 5, 5, 3, 2, 7, 3, 4, 6, 4, 0, 0, 4, 6, 9, 8, 9, 0, 1, 5, 7, 2, 6, 3, 6, 5, 5, 9, 8, 1, 0, 4, 2, 8, 1, 5, 7, 9, 6, 7, 9, 1, 9, 3, 1, 5, 4, 9}; cout << consecutiveOnes(nums);		

Test	Expected	Got
6, 8, 9, 8, 3, 4, 8, 1, 5, 1, 5, 3, 3, 1, 5, 9, 5, 9, 1, 1, 6, 5, 8, 1, 0, 2, 1, 3, 6, 8, 5, 6, 2, 9, 8, 0, 5, 1, 0, 0, 3, 2, 8, 4, 1, 8, 7, 8, 5, 8, 4, 0, 0, 8, 8, 9, 6, 2, 9, 9, 2, 0, 8, 7, 4, 1, 0, 4, 7, 6, 0, 2, 4, 5, 9, 2, 4, 2, 8, 7, 0, 1, 2, 6, 5, 7, 3, 8, 7, 4, 8, 7, 8, 7, 7, 7, 8, 0, 9, 6, 3, 0, 0, 2, 8, 4, 9, 5, 3, 5, 4, 0, 1, 1, 2, 5, 4, 1, 5, 8, 8, 4, 3, 1, 5, 8, 9, 7, 4, 3, 3, 0, 7, 6, 0, 3, 3, 5, 7, 3, 9, 4, 2, 4, 7, 1, 1, 1, 3, 3, 2, 2, 1, 7, 2, 1, 0, 6, 1, 7, 8, 6, 8, 6, 1, 2, 8, 4, 5, 5, 0, 2, 7, 7, 7, 9, 4, 8, 3, 8, 4, 0, 7, 5, 8, 6, 6, 9, 6, 8, 1, 0, 1, 5, 4, 0, 0, 1, 0, 4, 4, 2, 5, 4, 2, 8, 1, 4, 6, 5, 9, 0, 4, 3, 6, 4, 1, 2, 8, 4, 8, 4, 5, 6, 4, 1, 0, 8, 1, 9, 8, 1, 6, 5, 0, 2, 5, 6, 1, 4, 8, 5, 9, 3, 4, 7, 0, 2, 7, 2, 4, 1, 9, 7, 1, 7, 5, 9, 9, 9, 9, 3, 8, 0, 1, 9, 9, 0, 3, 0, 6, 5, 4, 4, 0, 0, 4, 9, 4, 1, 5, 2, 4, 4, 9, 7, 9, 1, 4, 3, 6, 9, 8, 5, 5, 4, 7, 1, 7, 3, 1, 7, 2, 1, 2, 1, 7, 5, 6, 5, 8, 0, 3, 6, 9, 0, 0, 9, 9, 4, 3, 9, 3, 0, 0, 9, 8, 9, 5, 6, 5, 0, 2, 0, 0, 2, 4, 7, 3, 2, 9, 0, 7, 1, 5, 2, 6, 5, 9, 9, 1, 0, 1, 2, 9, 4, 0, 3, 2, 8, 4, 5, 9, 9, 2, 9, 9, 8, 7, 1, 8, 5, 7, 6, 8, 0, 4, 7, 2, 1, 2, 5, 5, 5, 0, 0, 0, 5, 9, 2, 9, 7, 2, 5, 8, 8, 1, 1, 1, 0, 8, 2, 2, 6, 8, 9, 0, 7, 8, 9, 6, 0, 7, 5, 5, 6, 0, 0, 5, 7, 6, 2, 9, 6, 1, 4, 9, 1, 7, 3, 1, 8, 5, 1, 0, 1, 8, 8, 3, 2, 9, 6, 2, 2, 1, 8, 2, 5, 6, 2, 1, 8, 1, 5, 3, 3, 2, 5, 6, 2, 1, 8, 3, 2, 0, 1, 5, 0 ...snip..., 6, 9, 1, 6, 5, 1, 0, 4, 2, 0, 5, 1, 2, 1, 6, 7, 5, 8, 5, 4, 4, 6, 8, 3, 5, 3, 1, 4, 0, 7, 3, 2, 2, 8, 4, 1, 8, 2, 2, 8, 5, 7, 3, 7, 8, 0, 6, 4, 9, 8, 5, 6, 8, 1, 6, 4, 2, 4, 1, 6, 8, 4, 3, 8, 2, 7, 3, 5, 0, 1, 9, 1, 1, 5, 7, 6, 7, 0, 6, 3, 2, 0, 9, 1, 0, 9, 2, 7, 5, 0, 2, 8, 4, 1, 8, 6, 5, 0, 0, 9, 3, 0, 9, 0, 9, 0, 7, 5, 6, 9, 6, 4, 7, 4, 5, 1, 1, 8, 0, 8, 0, 3, 5, 1, 0, 3, 2, 5, 5, 2, 1, 3, 1, 1, 3, 2, 2, 8, 7, 0, 3, 7, 2, 2, 3, 7, 2, 5, 7, 7, 2, 0, 3, 7, 3, 2, 5, 1, 6, 9, 1, 7, 9, 2, 9, 5, 7, 8, 3, 1, 2, 3, 8, 9, 4, 6, 1, 0, 3, 6, 4, 4, 8, 0, 8, 3, 0, 6, 5, 8, 7, 2, 2, 5, 4, 7, 7, 5, 6, 8, 9, 8, 4, 9, 0, 8, 3, 3, 4, 7, 6, 4, 2, 2, 2, 7, 4, 2, 0, 3, 2, 2, 5, 6, 2, 9, 9, 9, 5, 8, 3, 8, 3, 5, 8, 0, 2, 3, 8, 1, 4, 4, 8, 0, 3, 9, 5, 8, 4, 1, 1, 4, 3, 4, 2, 5, 5, 8, 5, 4, 6, 8, 3, 8, 7, 4, 4, 2, 6, 8, 6, 1, 3, 8, 8, 4, 2, 7, 7, 4, 8, 7, 8, 1, 9, 6, 1, 9, 9, 7, 1, 0, 1, 6, 2, 8, 5, 1, 5, 6, 2, 8, 1, 7, 1, 8, 2, 9, 8, 1, 7, 2, 3, 3, 5, 4, 1, 6, 9, 7, 4, 5, 5, 9, 8, 4, 9, 6, 6, 2, 3, 6, 1, 6, 5, 6, 4, 0, 1, 8, 1, 9, 3, 6, 4, 9, 1, 0, 2, 5, 1, 6, 0, 2, 4, 1, 3, 0, 1, 2, 5, 9, 2, 6, 3, 7, 8, 9, 6, 0, 6, 7, 9, 6, 6, 4, 2, 3, 4, 6, 3, 3, 8, 2, 9, 5, 1, 4, 6, 5,		

Test	Expected	Got
1, 2, 5, 2, 8, 6, 6, 7, 5, 6, 6, 6, 9, 2, 9, 3, 4, 2, 8, 1, 3, 5, 4, 0, 0, 8, 0, 4, 3, 4, 4, 5, 5, 8, 3, 8, 3, 2, 7, 8, 3, 0, 0, 7, 8, 2, 9, 1, 7, 8, 2, 5, 6, 3, 2, 7, 7, 2, 1, 1, 7, 1, 3, 3, 4, 7, 7, 1, 5, 7, 4, 3, 0, 7, 5, 7, 4, 2, 3, 9, 0, 2, 6, 8, 0, 4, 2, 8, 4, 8, 7, 5, 3, 2, 4, 3, 5, 7, 9, 2, 6, 9, 9, 3, 8, 2, 9, 3, 9, 0, 2, 9, 4, 6, 0, 3, 0, 7, 6, 8, 4, 8, 7, 1, 5, 1, 7, 2, 8, 9, 6, 8, 7, 1, 4, 2, 4, 2, 8, 7, 5, 9, 4, 6, 1, 1, 5, 1, 5, 0, 0, 3, 8, 0, 0, 1, 0, 0, 4, 3, 4, 2, 8, 0, 5, 1, 3, 6, 5, 7, 3, 4, 4, 1, 6, 6, 0, 1, 7, 8, 9, 1, 1, 5, 7, 0, 0, 7, 7, 1, 4, 4, 7, 0, 9, 9, 4, 9, 8, 0, 6, 2, 4, 3, 6, 8, 0, 6, 3, 2, 1, 6, 8, 1, 7, 7, 0, 9, 4, 8, 6, 3, 2, 0, 4, 8, 7, 9, 6, 5, 0, 5, 1, 1, 3, 7, 6, 8, 8, 5, 6, 9, 3, 6, 9, 6, 4, 2, 5, 7, 0, 0, 7, 7, 7, 6, 7, 3, 9, 1, 0, 2, 7, 4, 6, 1, 5, 2, 3, 7, 9, 6, 7, 5, 9, 7, 2, 9, 0, 7, 1, 3, 6, 6, 8, 1, 4, 5, 0, 2, 7, 0, 2, 6, 7, 9, 8, 0, 5, 9, 4, 3, 4, 2, 7, 8, 2, 3, 3, 8, 9, 1, 0, 2, 1, 2, 8, 6, 9, 8, 2, 0, 8, 9, 9, 3, 2, 6, 1, 0, 7, 7, 3, 8, 7, 9, 8, 8, 3, 1, 3, 3, 4, 0, 6, 9, 2, 6, 8, 8, 5, 0, 7, 0, 0, 1, 3, 2, 0, 9, 7, 0, 4, 4, 1, 9, 5, 2, 5, 1, 5, 2, 6, 3, 3, 5, 9, 0, 8, 9, 2, 7, 7, 5, 4, 8, 6, 8, 1, 1, 8, 0, 0, 5, 3, 9, 0, 4, 6, 2, 1, 6, 7, 8, 1, 1, 9, 3, 8, 5, 7, 9, 7, 8, 5, 9, 6, 1, 0, 9, 8, 2, 5, 8, 9, 4, 0, 3, 9, 1, 9, 6, 0, 5, 8, 9, 7, 3, 0, 0, 5, 4, 4, 3, 2, 9, 3, 6, 2, 1, 1, 5, 2, 6, 4, 0, 1, 9, 4, 1, 1, 8, 3, 5, 6, 3, 5, 9, 3, 0, 9, 3, 9, 5, 2, 4, 5, 9, 0, 9, 5, 5, 1, 1, 3, 7, 3, 3, 4, 0, 2, 5, 3, 6, 3, 2, 1, 7, 9, 6, 9, 9, 7, 1, 3, 9, 0, 2, 9, 1, 1, 2, 7, 9, 8, 7, 6, 8, 6, 9, 3, 3, 4, 1, 1, 0, 4, 4, 3, 0, 3, 6, 9, 9, 4, 2, 7, 0, 8, 0, 2, 3, 1, 9, 8, 0, 3, 0, 7, 3, 7, 1, 6, 7, 1, 8, 5, 7, 9, 7, 6, 1, 2, 9, 3, 9, 6, 9, 5, 5, 9, 8, 8, 0, 8, 6, 7, 2, 9, 1, 2, 8, 1, 5, 8, 5, 7, 3, 9, 0, 7, 4, 7, 1, 6, 7, 7, 3, 4, 2, 1, 9, 8, 3, 1, 3, 4, 3, 8, 2, 9, 8, 2, 8, 7, 5, 3, 7, 9, 0, 3, 9, 6, 5, 3, 7, 6, 3, 2, 6, 5, 7, 2, 9, 6, 1, 4, 5, 2, 7, 0, 9, 1, 2, 7, 4, 1, 7, 9, 2, 8, 8, 3, 9, 2, 3, 8, 3, 7, 5, 1, 7, 8, 0, 7, 6, 1, 3, 8, 5, 1, 0, 7, 6, 0, 9, 9, 4, 8, 3, 3, 8, 6, 3, 1, 0, 0, 0, 0, 4, 7, 7, 5, 3, 4, 7, 4, 6, 1, 5, 5, 2, 9, 3, 9, 6, 5, 1, 9, 7, 3, 2, 5, 3, 0, 9, 2, 3, 9, 3, 8, 8, 3, 9, 4, 9, 7, 7, 1, 8, 0, 9, 5, 3, 3, 5, 1, 0, 4, 0, 8, 3, 6, 4, 3, 1, 9, 4, 9, 2, 7, 3, 8, 1, 3, 7, 6, 4, 5, 2, 0, 2, 0, 9, 2, 8, 2, 6, 3, 3, 7, 4, 6, 8, 6, 8, 0, 9, 6, 7, 2, 7, 4, 8, 2, 7, 1, 0, 7, 9, 1, 4, 2, 3, 7, 5, 2, 2, 0, 8, 9, 7, 5, 9, 7, 9, 4, 4, 3, 3, 5, 0, 4, 6, 0, 5, 0, 8, 3, 7, 3, 2, 1, 8, 3, 4, 2, 7, 9, 6, 8, 2, 1, 7, 4, 7, 7, 0, 1, 9, 6, 0, 6, 3, 6, 2, 2, 9, 3, 8, 0, 6, 6, 8, 2, 8, 6, 2, 0, 3, 7,		

	Test	Expected	Got
	7, 7, 7, 0, 5, 5, 6, 1, 0, 7, 4, 8, 4, 5, 2, 1, 6, 4, 0, 6, 7, 0, 8, 5, 8, 8, 0, 7, 0, 9, 2, 7, 3, 3, 6, 5, 4, 5, 3, 4, 1, 4, 7, 2, 6, 3, 3, 7, 0, 1, 5, 1, 5, 5, 2, 2, 3, 9, 6, 0, 8, 0, 1, 2}; cout << consecutiveOnes(nums);		

Test	Expected	Got
1, 3, 4, 0, 5, 0, 9, 0, 7, 3, 1, 5, 7, 3, 7, 8, 6, 4, 6, 8, 9, 2, 4, 0, 3, 0, 5, 2, 0, 9, 0, 3, 7, 2, 8, 5, 1, 5, 9, 4, 8, 5, 6, 6, 7, 8, 8, 0, 5, 1, 9, 3, 7, 7, 6, 8, 5, 5, 7, 7, 6, 6, 9, 7, 8, 0, 0, 4, 1, 6, 5, 5, 3, 3, 3, 6, 8, 7, 2, 1, 2, 0, 1, 5, 8, 7, 0, 1, 1, 6, 4, 3, 4, 6, 8, 5, 1, 9, 8, 5, 8, 7, 0, 9, 7, 3, 0, 6, 5, 1, 7, 8, 4, 4, 3, 7, 7, 1, 5, 4, 6, 0, 6, 0, 8, 2, 6, 3, 6, 7, 1, 1, 9, 9, 2, 0, 7, 0, 0, 0, 1, 2, 5, 5, 8, 4, 1, 9, 1, 8, 1, 1, 6, 0, 3, 6, 1, 3, 0, 7, 5, 9, 1, 5, 1, 5, 0, 0, 6, 3, 4, 4, 9, 7, 4, 9, 0, 4, 8, 1, 4, 2, 3, 6, 6, 8, 9, 9, 2, 3, 9, 2, 7, 4, 8, 3, 9, 4, 6, 9, 7, 8, 4, 7, 1, 3, 9, 8, 6, 3, 7, 2, 1, 2, 1, 3, 6, 6, 0, 2, 0, 1, 5, 4, 6, 9, 6, 7, 4, 2, 8, 6, 8, 8, 7, 6, 0, 3, 4, 8, 2, 3, 7, 2, 2, 3, 1, 4, 3, 0, 2, 0, 3, 3, 9, 3, 6, 1, 3, 5, 9, 2, 0, 3, 4, 0, 3, 3, 2, 4, 6, 8, 5, 9, 8, 3, 8, 1, 9, 7, 2, 7, 9, 3, 6, 3, 4, 2, 1, 9, 3, 2, 6, 0, 4, 1, 6, 2, 7, 3, 6, 9, 0, 1, 1, 9, 7, 2, 6, 9, 7, 8, 6, 3, 5, 0, 3, 3, 5, 5, 9, 3, 2, 4, 2, 6, 6, 7, 3, 9, 1, 3, 8, 3, 6, 5, 6, 4, 0, 9, 2, 1, 5, 9, 4, 4, 1, 2, 1, 1, 1, 3, 1, 9, 2, 2, 3, 2, 1, 5, 3, 6, 6, 4, 9, 5, 3, 3, 3, 3, 1, 2, 7, 6, 9, 7, 9, 3, 8, 7, 9, 3, 3, 6, 5, 7, 9, 5, 5, 1, 5, 6, 0, 3, 2, 0, 0, 3, 7, 0, 8, 4, 4, 4, 8, 0, 6, 4, 1, 7, 0, 1, 8, 5, 2, 9, 9, 4, 5, 7, 7, 5, 8, 6, 3, 7, 9, 7, 7, 2, 6, 8, 3, 7, 3, 1, 6, 3, 9, 1, 9, 8, 6, 5, 6, 7, 5, 2, 5, 6, 8, 2, 0, 8, 8, 1, 6, 9, 1, 5, 6, 8, 3, 3, 8 ...snip..., 7, 7, 9, 4, 0, 1, 9, 5, 4, 7, 2, 9, 8, 2, 7, 7, 5, 1, 0, 6, 1, 0, 8, 1, 5, 8, 4, 1, 9, 5, 9, 4, 3, 8, 5, 1, 6, 0, 9, 4, 3, 5, 3, 4, 2, 9, 7, 7, 8, 9, 4, 1, 8, 1, 8, 8, 7, 6, 9, 9, 8, 2, 8, 0, 6, 1, 3, 7, 6, 4, 0, 2, 5, 3, 5, 2, 6, 9, 3, 2, 4, 7, 9, 5, 8, 0, 6, 9, 6, 1, 3, 6, 1, 2, 9, 8, 4, 6, 1, 0, 0, 1, 9, 7, 0, 7, 5, 7, 5, 7, 8, 6, 7, 7, 4, 0, 4, 2, 6, 3, 7, 5, 4, 5, 3, 5, 9, 4, 3, 7, 3, 7, 7, 9, 5, 5, 9, 1, 8, 1, 0, 6, 5, 6, 3, 1, 0, 4, 4, 8, 5, 6, 8, 4, 1, 8, 0, 8, 9, 6, 8, 9, 6, 5, 3, 7, 6, 1, 6, 3, 8, 6, 5, 0, 4, 9, 3, 6, 8, 1, 2, 5, 4, 4, 5, 2, 3, 4, 2, 1, 8, 6, 0, 8, 4, 3, 6, 3, 4, 2, 9, 0, 5, 2, 2, 1, 4, 5, 2, 5, 7, 9, 0, 8, 6, 4, 2, 7, 9, 3, 3, 6, 3, 2, 5, 2, 0, 9, 6, 9, 0, 3, 6, 6, 4, 7, 5, 9, 7, 8, 6, 0, 4, 4, 0, 0, 6, 1, 5, 1, 2, 1, 3, 2, 0, 5, 6, 4, 6, 7, 6, 0, 2, 7, 5, 9, 3, 5, 6, 1, 1, 7, 4, 5, 6, 8, 3, 0, 1, 8, 2, 0, 9, 0, 7, 9, 4, 4, 4, 7, 6, 6, 6, 8, 2, 5, 6, 0, 0, 5, 2, 0, 8, 5, 0, 4, 8, 1, 7, 2, 3, 2, 5, 5, 1, 7, 3, 1, 8, 3, 6, 0, 9, 5, 5, 9, 8, 1, 8, 4, 3, 7, 6, 3, 0, 2, 5, 8, 4, 0, 6, 7, 9, 0, 9, 5, 9, 5, 8, 2, 3, 6, 9, 9, 8, 0, 0, 3, 4, 2, 2, 9, 5, 8, 8, 3, 9, 4, 6, 6, 5, 0, 8, 1, 4, 0, 5, 2, 4, 0, 1, 9, 0, 1, 1, 0, 6, 3, 4, 9, 8, 6, 9,		

Test	Expected	Got
2, 0, 5, 5, 2, 5, 9, 2, 4, 3, 4, 4, 6, 0, 4, 7, 9, 0, 0, 9, 4, 8, 5, 7, 9, 5, 6, 2, 7, 5, 5, 5, 4, 2, 5, 2, 8, 7, 6, 9, 8, 5, 3, 8, 8, 2, 1, 8, 9, 4, 8, 3, 5, 3, 3, 8, 6, 7, 4, 8, 1, 9, 4, 7, 7, 0, 1, 5, 7, 3, 5, 8, 5, 0, 0, 2, 3, 2, 4, 6, 2, 4, 5, 7, 0, 9, 4, 3, 4, 0, 5, 7, 8, 9, 4, 8, 1, 8, 0, 6, 1, 5, 9, 6, 9, 6, 4, 5, 3, 8, 2, 0, 2, 8, 6, 4, 3, 1, 5, 2, 9, 5, 8, 6, 5, 5, 8, 6, 0, 1, 4, 4, 6, 4, 8, 2, 7, 3, 4, 2, 6, 8, 0, 1, 7, 5, 4, 3, 9, 3, 6, 7, 9, 5, 6, 5, 0, 7, 4, 4, 4, 9, 6, 6, 2, 7, 8, 0, 8, 2, 1, 2, 3, 4, 1, 3, 1, 3, 1, 8, 7, 1, 6, 6, 6, 9, 4, 1, 8, 8, 3, 7, 4, 8, 9, 9, 5, 0, 1, 0, 4, 3, 1, 9, 8, 9, 6, 6, 7, 2, 6, 9, 7, 8, 7, 7, 0, 1, 9, 3, 7, 6, 4, 7, 0, 1, 0, 1, 8, 3, 9, 6, 1, 2, 1, 3, 4, 8, 5, 1, 9, 7, 5, 9, 2, 4, 7, 8, 5, 4, 8, 7, 1, 7, 4, 8, 7, 2, 2, 0, 3, 3, 7, 0, 5, 7, 6, 4, 2, 4, 9, 1, 5, 2, 9, 1, 4, 0, 9, 8, 7, 6, 8, 1, 0, 1, 8, 1, 9, 7, 2, 2, 2, 0, 4, 4, 6, 9, 3, 0, 4, 1, 7, 3, 5, 4, 4, 4, 7, 8, 0, 2, 1, 3, 1, 2, 8, 7, 6, 4, 7, 9, 7, 3, 1, 2, 4, 7, 3, 9, 1, 5, 4, 9, 4, 6, 5, 5, 1, 9, 7, 8, 7, 1, 2, 0, 0, 3, 9, 2, 9, 9, 3, 6, 7, 5, 8, 9, 2, 4, 4, 3, 9, 3, 1, 7, 9, 0, 9, 3, 1, 6, 2, 3, 7, 5, 6, 5, 0, 3, 1, 0, 3, 2, 2, 0, 7, 5, 2, 0, 2, 0, 5, 7, 4, 8, 8, 1, 9, 1, 1, 1, 5, 5, 3, 7, 8, 3, 8, 6, 8, 4, 2, 5, 7, 4, 2, 8, 9, 0, 0, 5, 8, 5, 8, 7, 0, 0, 9, 1, 5, 8, 5, 9, 4, 3, 6, 7, 0, 0, 4, 7, 9, 0, 4, 2, 9, 3, 8, 7, 1, 1, 6, 4, 8, 1, 3, 0, 6, 4, 1, 2, 6, 0, 5, 8, 6, 1, 8, 3, 1, 0, 6, 9, 2, 5, 6, 1, 6, 8, 2, 5, 4, 8, 3, 7, 6, 3, 2, 8, 1, 1, 0, 6, 2, 0, 4, 2, 8, 5, 4, 3, 0, 3, 2, 7, 4, 4, 2, 0, 9, 2, 5, 4, 1, 8, 3, 8, 9, 0, 7, 5, 2, 2, 4, 6, 6, 6, 4, 9, 6, 2, 4, 4, 3, 2, 8, 1, 3, 9, 8, 2, 8, 9, 7, 6, 2, 1, 8, 6, 1, 3, 8, 0, 0, 7, 5, 8, 6, 4, 3, 2, 7, 1, 8, 8, 8, 0, 3, 9, 6, 8, 6, 9, 1, 6, 6, 5, 7, 0, 0, 0, 4, 3, 9, 4, 8, 8, 5, 2, 0, 8, 9, 7, 5, 8, 6, 9, 7, 3, 5, 1, 9, 0, 8, 1, 3, 4, 4, 1, 7, 6, 1, 7, 0, 8, 9, 3, 3, 2, 6, 7, 9, 0, 8, 4, 6, 4, 6, 2, 7, 4, 9, 6, 8, 9, 3, 1, 4, 7, 1, 2, 2, 7, 1, 3, 0, 6, 8, 9, 6, 0, 4, 5, 6, 2, 4, 5, 8, 4, 1, 3, 8, 6, 8, 1, 4, 8, 8, 2, 7, 2, 7, 3, 5, 4, 5, 8, 7, 0, 9, 9, 6, 1, 6, 0, 9, 8, 7, 7, 0, 2, 2, 4, 7, 4, 8, 8, 4, 0, 1, 6, 9, 8, 8, 7, 6, 9, 5, 7, 6, 5, 5, 3, 1, 0, 9, 1, 6, 2, 1, 8, 9, 7, 4, 0, 4, 1, 9, 7, 1, 1, 5, 9, 3, 9, 1, 1, 9, 6, 0, 8, 7, 0, 7, 8, 0, 5, 8, 0, 8, 3, 3, 2, 6, 1, 4, 0, 2, 1, 0, 6, 0, 6, 5, 4, 6, 4, 3, 2, 1, 7, 3, 9, 7, 0, 7, 4, 6, 4, 3, 1, 5, 0, 5, 5, 7, 2, 6, 8, 7, 4, 4, 1, 0, 4, 6, 5, 2, 7, 4, 3, 7, 6, 7, 7, 0, 6, 2, 6, 1, 9, 9, 6, 8, 5, 4, 1, 2, 0, 0, 9, 4, 3, 3, 0, 4, 1, 5, 9, 3, 4, 4, 1, 2, 3, 0, 7, 8, 4, 5, 7, 3, 4, 3, 0, 0, 6, 6, 1, 0, 7, 0, 2, 4, 9, 7, 3, 8, 9, 3, 1, 1,		

Test	Expected	Got
7, 3, 1, 9, 9, 1, 1, 3, 7, 0, 4, 0, 5, 1, 2, 9, 9, 3, 0, 6, 1, 6, 4, 5, 0, 9, 5, 4, 0, 8, 7, 3, 0, 2, 0, 2, 9, 2, 8, 6, 7, 5, 4, 4, 2, 3, 5, 3, 8, 2, 3, 5, 3, 8, 0, 2, 9, 1, 7, 5, 8, 4, 4, 4}; cout << consecutiveOnes(nums);		

Passed all tests! ✓

Chỉnh xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi**3**

Chính xác

Điểm 1,00 của
1,00

Given an array of integers.

Your task is to implement a function with following prototype:

```
int equalSumIndex(vector<int>& nums);
```

The function returns the smallest index *i* such that the sum of the numbers to the left of *i* is equal to the sum of the numbers to the right.

If no such index exists, return **-1**.

Note:

- The `iostream` and `vector` libraries have been included and namespace `std` is being used. No other libraries are allowed.
- You can write helper functions.

For example:

Test	Result
<pre>vector<int> nums {3, 5, 2, 7, 6, 4}; cout << equalSumIndex(nums);</pre>	3

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)

```

1 int equalSumIndex(vector<int>& nums) {
2     // STUDENT ANSWERMAX;
3     if (nums.size() == 1) return 0;
4     long long left = nums[0];
5     long long right = 0;
6     for (int i = 2; i < nums.size(); i++){
7         right += 1ll * nums[i];
8     }
9     for (int i = 1; i <= nums.size() - 2; i++){
10        if (left == right) {
11            return i;
12        }
13    }

```

```
14         left += nums[i];
15         right -= nums[i + 1];
16     }
17 }
18 return -1;
19 }
```

	Test	Expected	Got	
✓	vector<int> nums {3, 5, 2, 7, 6, 4}; cout << equalSumIndex(nums);	3	3	✓
✓	vector<int> nums {3}; cout << equalSumIndex(nums);	0	0	✓
✓	vector<int> nums {16, 6, 4, 9, 4, 17, 17, 15, 13, 12, 9, 3, 17, 17, 16, 18, 7, 7, 7, 11}; cout << equalSumIndex(nums);	-1	-1	✓ //
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Test	Expected	Got	
✓ vector<int> nums {2, 6, 19, 17, 13, 12, 3, 10, 7, 12, 17, 4, 5, 16, 2, 19, 4, 4, 10, 3, 19, 11, 16, 0, 9, 11, 5, 19, 1, 9, 19, 5, 8, 8, 10, 2, 7, 7, 15, 16, 17, 13, 13, 9, 16, 13, 9, 3, 3, 2, 19, 19, 18, 1, 2, 15, 14, 4, 2, 4, 6, 9, 0, 10, 19, 0, 1, 14, 6, 1, 16, 6, 15, 1, 6, 11, 6, 19, 7, 19, 19, 2, 14, 0, 4, 13, 16, 17, 1, 18, 1, 0, 3, 2, 15, 0, 2, 5, 11, 7, 8, 1, 13, 15, 3, 10, 0, 12, 0, 9, 6, 9, 0, 7, 5, 0, 11, 0, 14, 15, 4, 2, 13, 9, 4, 12, 5, 15, 7, 16, 1, 15, 19, 4, 15, 15, 10, 9, 16, 2, 2, 12, 16, 8, 2, 14, 11, 10, 4, 13, 9, 11, 13, 15, 18, 9, 17, 18, 1, 0, 16, 1, 2, 13, 12, 6, 5, 5, 8, 0, 13, 19, 19, 15, 12, 8, 17, 10, 9, 6, 19, 1, 12, 15, 6, 19, 13, 10, 14, 5, 11, 1, 18, 11, 18, 17, 15, 10, 15, 19, 16, 11, 7, 1, 5, 3, 3, 1, 9, 0, 6, 8, 16, 3, 11, 1, 13, 10, 13, 18, 14, 16, 12, 8, 17, 15, 2, 7, 7, 9, 17, 4, 0, 1, 3, 11, 18, 0, 4, 11, 9, 3, 10, 8, 14, 16, 15, 7, 18, 5, 14, 7, 10, 8, 15, 19, 13, 0, 8, 11, 18, 14, 16, 5, 6, 11, 4, 13, 3, 9, 19, 2, 6, 12, 18, 10, 7, 8, 3, 7, 19, 0, 4, 12, 2, 12, 12, 16, 5, 11, 15, 13, 10, 10, 11, 8, 11, 1, 18, 6, 8, 3, 16, 2, 12, 3, 12, 6, 9, 14, 15, 11, 18, 6, 16, 1, 6, 9, 12, 10, 3, 7, 16, 13, 12, 4, 15, 2, 11, 2, 5, 12, 9, 13, 0, 11, 3, 7, 6, 16, 9, 18, 4, 18, 9, 8, 6, 6, 18, 3, 14, 16, 1, 1, 13, 19, 16, 9, 7, 19, 5, 6, 10, 14, 14, 0, 2, 6, 2, 5, 16, 16, 18, 17, 0, 12, 10, 13, 16, 3, 5, 13, 10, 0, 8, 0, 5, 16, 2, 0, 19, 12, 3, 18, 8, 16, 18, 11, 6, 9, 19, 0, 9, 7, 18, 15, 2, 12, 2, 18, 0, 8, 17, 15, 16, 9, 12, 13, 12, 10, 13, 19, 15, 15, 19, 10, 8, 15, 2, 19, 1, 6, 4, 13, 1, 7, 3, 0, 19, 16, 16, 11, 9, 13, 0, 11, 17, 11, 1, 16, 15, 2, 10, 7, 12, 1, 14, 13, 1, 5, 2, 0, 14, 7, 6, 19, 12, 13, 11, 14, 13, 19, 6, 19, 19, 14, 3, 6, 8, 18, 6, 16, 9, 5, 17, 6, 13, 11, 16, 12, 15, 7, 10, 1, 5, 2, 1, 11, 7, 6, 0, 0, 15, 1, 18, 10, 19, 0, 5, 19, 18, 10, 12, 18, 10, 17, 14, 16, 18, 0, 5, 14, 2, 1, 2, 6, 3, 5, 17, 13, 9, 12, 14, 16, 10, 19, 9, 13, 12, 17, 16, 4, 18, 3, 3, 17, 7, 4, 5, 12, 3, 19, 0, 16, 7, 0, 9, 0, 15, 10, 9, 4, 18, 1, 15, 18, 4, 3, 19, 12, 19, 6, 14, 13, 12, 2, 7, 14, 11, 13, 6, 19, 17, 2, 11, 2, 9, 14, 8, 11, 9, 4, 6, 16, 15, 0, 10, 8, 0, 18, 0, 6, 18, 0, 8, 3, 16, 1, 12, 4, 10, 11, 4, 17, 16, 0, 8, 3, 8, 12, 19, 18, 10, 2, 5, 7, 10, 17, 6, 19, 15, 16, 15, 16, 19, 1, 10, 6, 3, 9, 9, 8, 9, 4, 8, 9, 14, 9, 0, 12, 9, 19, 6, 14, 13, 6, 15, 18, 18, 7, 16, 10, 11, 6, 18, 6, 6, 15, 0, 1, 0, 19, 12, 18, 3, 15, 2, 11, 9, 13, 10, 16, 7, 14, 5, 3, 10, 3, 11, 4, 12, 4, 16, 10, 3, 10, 19, 19, 1, 16, 18, 13, 19, 17, 7, 1, 0, 4, 18, 8, 12, 3, 8, 7, 10, 4, 19, 0, 9, 1, 16, 15, 6,}	-1	-1	✓

Test	Expected	Got
11, 6, 10, 11, 2, 7, 15, 6, 6, 3, 17, 13, 1, 11, 6, 0, 7, 12, 4, 4, 18, 16, 15, 3, 15, 10, 9, 7, 16, 5, 3, 7, 16, 5, 8, 12, 0, 2, 15, 16, 0, 8, 6, 17, 13, 0, 12, 0, 16, 7, 18, 0, 19, 4, 2, 0, 14, 16, 15, 11, 0, 11, 5, 12, 19, 6, 16, 13, 6, 11, 11, 12, 14, 17, 15, 19, 19, 17, 16, 15, 19, 12, 7, 0, 7, 6, 0, 8, 1, 2, 18, 2, 13, 10, 13, 0, 4, 10, 7, 10, 3, 16, 6, 17, 8, 18, 1, 4, 5, 8, 1, 18, 4, 11, 14, 4, 18, 11, 2, 8, 8, 8, 13, 11, 12, 6, 14, 7, 0, 2, 1, 19, 14, 3, 5, 11, 6, 15, 4, 3, 5, 11, 8, 7, 11, 0, 16, 5, 16, 6, 16, 2, 7, 17, 17, 14, 19, 3, 4, 9, 5, 9, 5, 13, 1, 17, 19, 2, 4, 19, 15, 16, 6, 11, 4, 1, 1, 15, 17, 14, 2, 1, 1, 17, 10, 3, 14, 11, 19, 8, 9, 7, 4, 2, 8, 4, 19, 14, 9, 3, 10, 4, 18, 0, 0, 12, 6, 5, 8, 3, 8, 3, 10, 10, 13, 14, 5, 16, 14, 15, 5, 6, 7, 8, 13, 8, 17, 18, 8, 10, 3, 17, 12, 4, 19, 1, 3, 13, 6, 5, 1, 10, 9, 13, 6, 6, 2, 11, 0, 1, 16, 17, 3, 13, 18, 12, 13, 4, 9, 1, 8, 12, 12, 5, 14, 0, 7, 14, 19, 16, 15, 8, 5, 14, 6, 11, 8, 5, 1, 15, 11, 2, 18, 13, 7, 9, 19, 16, 18, 10, 0, 0, 3, 5, 12, 2, 12, 7, 17, 4, 16, 7, 2, 18, 18, 4, 4, 13, 10, 7, 9, 15, 2, 2, 1, 8, 15, 14, 9, 19, 14, 2, 13, 15, 9, 6, 12, 12, 7, 11, 7, 17, 10, 3, 18, 8, 18, 15, 14, 12, 18, 11, 4, 5, 2, 7, 16, 13, 17, 11, 13, 5, 0, 8, 12, 15, 18, 12, 0, 15, 17, 14, 5, 4, 5, 0, 12, 5, 8, 17, 13, 19, 10, 18, 6, 16, 5, 7, 12, 0, 4, 14, 19, 11, 19, 15, 18, 19, 3, 2, 15, 4, 3, 9, 4, 5, 10, 14, 19, 1, 3, 8, 0, 2, 1, 17, 12, 16, 5, 3, 16, 1, 16 ...snip..., 13, 3, 3, 3, 1, 13, 10, 2, 18, 13, 8, 8, 6, 0, 1, 13, 1, 17, 1, 16, 4, 3, 15, 15, 17, 12, 13, 14, 13, 6, 7, 11, 19, 16, 12, 4, 7, 15, 19, 1, 1, 9, 18, 16, 15, 2, 11, 14, 16, 17, 12, 0, 3, 17, 16, 5, 7, 13, 6, 2, 0, 5, 18, 19, 6, 6, 6, 4, 0, 7, 7, 8, 16, 5, 12, 13, 17, 8, 1, 16, 9, 7, 12, 18, 16, 6, 16, 16, 16, 5, 3, 6, 3, 4, 6, 18, 18, 5, 6, 19, 3, 17, 9, 12, 17, 7, 5, 3, 10, 18, 12, 18, 18, 17, 5, 0, 3, 0, 7, 7, 8, 4, 3, 16, 9, 2, 14, 15, 19, 1, 11, 10, 0, 17, 14, 0, 6, 16, 6, 19, 0, 3, 16, 17, 5, 8, 8, 1, 15, 3, 8, 6, 3, 6, 7, 0, 12, 5, 19, 15, 17, 9, 6, 0, 15, 15, 1, 12, 5, 8, 11, 12, 14, 17, 12, 19, 4, 4, 13, 6, 10, 13, 7, 17, 9, 18, 6, 0, 19, 19, 1, 9, 12, 11, 7, 1, 16, 19, 15, 5, 8, 3, 15, 18, 19, 6, 17, 18, 9, 5, 15, 18, 7, 12, 2, 5, 10, 5, 13, 2, 5, 9, 19, 9, 12, 17, 9, 13, 11, 12, 8, 14, 17, 13, 2, 17, 13, 15, 3, 5, 14, 3, 3, 1, 7, 18, 6, 1, 6, 15, 8, 1, 4, 15, 2, 19, 1, 4, 16, 9, 16, 15, 19, 7, 6, 13, 10, 2, 3, 16, 13, 9, 1, 17, 1, 7, 16, 5, 10, 2, 2, 16, 2, 2, 3, 9, 5, 8, 19, 4, 1, 0, 19, 16, 0, 1, 18, 5, 4, 4, 17, 8, 15, 8, 5, 4, 15, 9, 15, 10, 16, 6, 4, 4, 15, 12,		

Test	Expected	Got
18, 15, 1, 19, 7, 4, 4, 15, 8, 7, 1, 7, 9, 11, 3, 4, 15, 15, 17, 14, 6, 18, 16, 8, 14, 4, 8, 4, 3, 17, 10, 8, 3, 9, 12, 9, 0, 15, 18, 0, 0, 12, 19, 19, 5, 10, 7, 5, 9, 1, 13, 14, 13, 3, 5, 6, 6, 15, 17, 3, 1, 14, 7, 17, 11, 8, 5, 10, 16, 4, 4, 6, 9, 1, 18, 9, 16, 19, 11, 18, 3, 11, 1, 6, 15, 14, 15, 6, 10, 5, 3, 1, 6, 13, 8, 9, 9, 3, 18, 19, 6, 15, 7, 1, 18, 8, 10, 1, 14, 19, 18, 3, 10, 17, 5, 7, 15, 14, 9, 15, 17, 8, 3, 17, 16, 8, 10, 9, 0, 3, 15, 6, 3, 6, 1, 10, 12, 7, 14, 10, 11, 0, 11, 8, 17, 4, 2, 16, 0, 17, 15, 2, 5, 16, 19, 1, 12, 16, 12, 18, 8, 0, 1, 11, 19, 17, 4, 17, 4, 4, 17, 9, 11, 12, 5, 10, 0, 10, 18, 10, 16, 10, 5, 5, 17, 13, 5, 6, 5, 7, 6, 1, 12, 15, 6, 17, 13, 9, 7, 3, 9, 4, 5, 2, 14, 8, 9, 8, 12, 13, 17, 13, 9, 4, 18, 11, 18, 9, 16, 2, 8, 14, 17, 5, 0, 7, 13, 15, 11, 19, 8, 11, 13, 10, 1, 2, 8, 11, 17, 19, 15, 12, 15, 13, 7, 19, 6, 19, 6, 7, 3, 16, 18, 0, 6, 4, 0, 15, 3, 7, 2, 10, 1, 4, 18, 3, 5, 13, 0, 18, 11, 1, 6, 3, 3, 14, 10, 12, 2, 1, 7, 16, 19, 10, 11, 13, 3, 8, 4, 8, 3, 0, 2, 7, 5, 16, 17, 14, 18, 16, 8, 0, 11, 4, 17, 15, 13, 13, 9, 2, 13, 8, 14, 0, 3, 11, 15, 11, 2, 19, 12, 10, 17, 14, 11, 1, 1, 18, 6, 12, 11, 9, 10, 10, 15, 7, 15, 4, 9, 12, 5, 7, 15, 2, 15, 14, 3, 7, 9, 3, 6, 3, 3, 16, 5, 13, 16, 17, 16, 6, 9, 16, 4, 10, 7, 19, 9, 17, 18, 13, 12, 13, 10, 16, 12, 14, 9, 3, 4, 10, 7, 0, 0, 19, 19, 10, 4, 17, 11, 2, 10, 16, 9, 7, 2, 1, 3, 1, 16, 8, 0, 7, 1, 14, 16, 19, 17, 12, 18, 14, 16, 16, 11, 7, 7, 18, 14, 17, 9, 6, 18, 9, 19, 16, 4, 16, 8, 0, 13, 9, 17, 15, 18, 18, 12, 5, 10, 0, 9, 0, 0, 4, 13, 13, 10, 19, 7, 6, 13, 9, 13, 12, 10, 14, 16, 18, 8, 5, 18, 18, 3, 17, 3, 14, 8, 9, 17, 1, 2, 19, 13, 19, 16, 0, 15, 10, 0, 6, 9, 2, 16, 17, 15, 0, 7, 16, 0, 2, 18, 3, 9, 10, 15, 1, 18, 17, 9, 8, 1, 14, 18, 15, 16, 15, 10, 3, 5, 9, 1, 0, 16, 18, 10, 2, 15, 12, 8, 12, 4, 1, 17, 8, 12, 2, 18, 9, 18, 12, 7, 0, 4, 19, 15, 16, 10, 1, 10, 12, 19, 11, 8, 7, 4, 6, 1, 4, 17, 5, 15, 9, 2, 9, 7, 4, 7, 5, 12, 3, 16, 7, 12, 1, 0, 6, 5, 3, 7, 9, 7, 12, 17, 1, 10, 16, 5, 6, 7, 1, 18, 0, 18, 0, 1, 3, 10, 10, 2, 15, 9, 2, 3, 18, 9, 18, 7, 2, 19, 12, 16, 8, 6, 15, 4, 13, 7, 13, 16, 3, 17, 0, 17, 11, 18, 12, 10, 0, 4, 19, 18, 16, 12, 8, 16, 9, 18, 12, 8, 19, 15, 10, 0, 8, 7, 0, 11, 17, 7, 6, 16, 7, 19, 19, 6, 8, 19, 6, 11, 18, 19, 3, 2, 8, 18, 6, 2, 0, 19, 18, 4, 17, 3, 10, 7, 19, 14, 8, 6, 7, 6, 7, 17, 15, 4, 3, 10, 13, 16, 5, 3, 11, 0, 17, 3, 11, 11, 15, 1, 4, 19, 9, 1, 12, 0, 19, 18, 19, 18, 14, 17, 0, 3, 16, 3, 18, 7, 16, 0, 19, 11, 10, 9, 14, 1, 16, 13, 15, 7, 9, 19, 8, 13, 1, 17, 10, 18, 12, 10,		

Test	Expected	Got
6, 7, 6, 18, 4, 6, 12, 4, 3, 8, 16, 8, 14, 5, 8, 6, 3, 17, 9, 19, 10, 4, 15, 19, 16, 1, 4, 18, 17, 2, 5, 3, 18, 15, 18, 13, 19, 9, 2, 0, 8, 13, 2, 0, 10, 13, 6, 9, 13, 14, 18, 3, 0, 15, 14, 2, 12, 5, 5, 4, 8, 0, 6, 14, 8, 13, 18, 16, 5, 0, 0, 9, 13, 19, 3, 10, 3, 7, 16, 2, 13, 3, 8, 18, 8, 15, 2, 2, 8, 18, 12, 8}; cout << equalSumIndex(nums);		

Passed all tests! ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi**4**

Chính xác

Điểm 1,00 của
1,00

Given an array of strings.

Your task is to implement a function with following prototype:

```
int longestSublist(vector<string>& words);
```

The function returns the length of the longest subarray where all words share the same first letter.

Note:

- The `iostream` and `vector` libraries have been included and `namespace std` is being used. No other libraries are allowed.
- You can write helper functions.

For example:

Test	Result
<pre>vector<string> words {"faction", "fight", "and", "are", "attitude"}; cout << longestSublist(words);</pre>	3

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)**Reset answer**

```

1 int longestSublist(vector<string> &words)
2 {
3     int max = 0;
4     int cur = 0;
5     char curK = '\0';
6     for (int i = 0; i < words.size(); i++){
7         char fi = words[i][0];
8         if (curK != fi) {
9             cur = 1;
10            curK = fi;
11        }
12        else cur++;
13        if (max < cur) {
14            max = cur;
15        }
}
```

```
10 }  
17     return max;  
18 }
```

	Test	Expected	Got	
✓	vector<string> words {"faction", "fight", "and", "are", "attitude"}; cout << longestSublist(words);	3	3	✓
✓	vector<string> words {}; cout << longestSublist(words);	0	0	✓
✓	vector<string> words {"also", "and", "an", "currying", "and", "day", "and", "and", "constituent", "an"}; cout << longestSublist(words);	3	3	✓
✓	vector<string> words {"and", "earth", "boating", "a", "are", "and", "and", "and", "as", "capulet", "and", "families", "central", "for", "and", "and", "central", "and", "ant", "fluids"}; cout << longestSublist(words);	6	6	✓

	Test	Expected	Got	
✓	<pre>vector<string> words {"by", "cousin", "application", "count", "constituent", "chorus", "fight", "each", "an", "daughter", "and", "disguise", "boats", "concept", "and", "cousin", "cooling", "boat", "application", "for", "and", "banish", "family", "and", "fight", "also", "as", "but", "family", "cooking", "currying", "and", "fight", "faction", "apple", "and", "colorless", "feast", "as", "feuding", "and", "falls", "and", "by", "an", "a", "and", "chemical", "agree", "and", "are", "falls", "are", "and", "a", "and", "capulets", "and", "as", "are", "and", "currying", "cousin", "each", "colorless", "entertainment", "and", "an", "fight", "agree", "ant", "after", "and", "a", "accept", "and", "colorless", "and", "another", "day", "chemical", "and", "are", "an", "diving", "faction", "chemical", "constituent", "banish", "concept", "and", "attitude", "as", "ant", "capulet", "as", "and", "application", "entertainment", "agressive"}; cout << longestSublist(words);</pre>	7	7	✓

Test	Expected	Got
<pre>vector<string> words {"application", "boats", "fight", "and", "a", "at", "fishing", "and", "as", "both", "application", "and", "application", "and", "attitude", "are", "entertainment", "an", "as", "as", "discover", "canals", "another", "capulet", "an", "currying", "also", "boats", "colorless", "and", "apple", "as", "composed", "both", "concept", "and", "entertainment", "agree", "a", "for", "a", "application", "count", "chorus", "apple", "and", "composed", "and", "after", "capulets", "at", "boating", "feast", "daughter", "cooling", "families", "boats", "and", "a", "by", "begins", "at", "apple", "apple", "boating", "but", "fluids", "another", "boat", "each", "as", "are", "and", "at", "another", "are", "and", "and", "benvolio", "all", "discover", "a", "capulets", "a", "agree", "capulets", "application", "are", "cooking", "and", "and", "beloved", "boys", "an", "excellent", "daughter", "application", "and", "each", "and", "and", "are", "and", "currying", "each", "capulet", "entertainment", "are", "ant", "currying", "for", "but", "ant", "attitude", "and", "and", "boat", "and", "at", "colorless", "but", "ant", "and", "cooking", "also", "at", "at", "discover", "also", "beloved", "chemical", "and", "daughter", "beloved", "banish", "currying", "boating", "colorless", "and", "constituent", "families", "disguise", "concept", "and", "an", "a", "and", "disguise", "and", "currying", "accept", "are", "families", "as", "all", "family", "composed", "an", "and", "an", "day", "and", "and", "and", "and", "and", "after", "a", "daughter", "and", "boating", "are", "feuding", "fluids", "apple", "boys", "agree", "ant", "and", "and", "boating", "begins", "currying", "and", "but", "a", "family", "currying", "entertainment", "for", "and", "an", "and", "discover", "and", "boating", "a", "constituent", "constituent", "as", "application", "and", "families", "feuding", "excellent", "apple", "currying", "and", "beloved", "concept", "boat", "currying", "and", "chorus", "boat", "are", "and", "canals", "application", "are", "an", "are", "beloved", "composed", "application", "begins", "agree", "composed", "and", "after", "at", "and", "and", "boating", "and", "central", "chorus", "and", "an", "are", "begins", "and", "falls", "are", "begins", "and", "and", "fight", "for", "application", "a", "each", "and", "a", "and", "discover", "also", "and", "for", "and", "and", "earth", "falls", "as", "boat", "fluids", "attitude", "boat",</pre>	8	8 ✓

Test	Expected	Got
<pre> "are", "family", "accept", "chemical", "and", "and", "as", "and", "families", "composed", "application", "and", "a", "and", "all", "another", "and", "cousin", "and", "beloved", "for", "are", "entertainment", "and", "families", "discover", "cooling", "currying", "and", "are", "colorless", "boating", "after", "an", "a", "cooling", "and", "both", "composed", "feast", "begins", "both", "currying", "entertainment", "a", "by", "a", "both", "by", "and", "as", "are", "currying", "and", "and", "family", "attitude", "currying", "beloved", "falls", "are", "a", "and", "boating", "are", "discover", "and", "currying", "diving", "and", "fight", "agressive", "family", "canals", "a", "boats", "and", "and", "agressive", "and", "cousin", "also", "benvolio", "feuding", "and", "composed", "all", "and", "cooling", "a", "feast", "are", "are", "and", "are", "an", "and", "as", "and", "begins", "apple", "capulets", "and", "capulets", "families", "boating", "boats", "and", "earth", "and", "are", "amper", "currying", "amper", "begins", "currying", "at", "are", "also", "discover", "daughter", "are", "and", "as", "but", "and", "as", "boat", "cooking", "for", "after", "currying", "and", "beloved", "faction", "application", "also", "day", "diving", "and", "and", "families", "agree", "and", "central", "and", "constituent", "daughter", "are", "chorus", "discover", "and", "and", "cooking", "and", "ant", "family", "also", "fluids", "benvolio", "and", "fluids", "falls", "both", "boating", "a", "a", "each", "and", "and", "as", "discover", "after", "and", "and", "all", "day", "and", "and", "application", "are", "excellent", "and", "and", "as", "faction", "and", "as", "boating", "discover", "also", "are", "chorus", "excellent", "an", "at", "daughter", "are", "and", "and", "currying", "and", "day", "discover", "and", "agree", "and", "apple", "and", "and", "are", "cooling", "and", "boat", "discover", "and", "beloved", "diving", "and", "after", "family", "an", "an", "each", "and", "fight", "families", "and", "by", "and", "and"}; cout << longestSublist(words); </pre>		

Test	Expected	Got
<pre>"each", "benvolio", "and", "boat", "accept", "central", "composed", "and", "and", "constituent", "are", "and", "a", "cooling", "and", "and", "for", "and", "and", "daughter", "as", "and", "apple", "ant", "amper", "all", "and", "and", "a", "also", "and", "another", "are", "a", "falls", "feast", "cooking", "and", "boat", "cousin", "as", "and", "boats", "benvolio", "a", "currying", "and", "currying", "application", "and", "and", "and", "currying", "fight", "fishing", "day", "as", "apple", "cooling", "and", "and", "each", "feast", "a", "and", "but", "are", "discover", "a", "are", "and", "for", "a", "for", "entertainment", "as", "and", "and", "ant", "are", "cooling", "and", "are", "an", "and", "accept", "and", "cooking", "currying", "and", "fluids", "currying", "daughter", "concept", "also", "both", "fluids", "a", "discover", "an", "a", "and", "capulets", "capulet", "and", "and", "as", "another", "constituent", "accept", "and", "boat", "also", "entertainment", "constituent", "as", "are", "after", "by", "and", "but", "feuding", "and", "application", "benvolio", "boating", "currying", "families", "feast", "day", "chorus", "and", "for", "falls", "as", "faction", "cooling", "ant", "as", "begins", "colorless", "daughter", "and", "feast", "and", "capulet", "and", "are", "and", "application", "central", "application", "and", "each", "boating", "and", "as", "and", "apple", "benvolio", "daughter", "and", "currying", "disguise", "banish", "an", "and", "excellent", "and", "application", "and", "central", "at", "as", "and", "boating", "day", "at", "falls", "fishing", "as ...snip... "fight", "ant", "currying", "application", "falls", "as", "boating", "disguise", "accept", "application", "and", "are", "and", "banish", "and", "after", "a", "for", "ant", "all", "fishing", "attitude", "another", "application", "feast", "a", "but", "after", "and", "agree", "a", "chorus", "boating", "all", "discover", "amper", "falls", "fluids", "count", "boating", "for", "application", "ant", "and", "a", "falls", "daughter", "currying", "as", "as", "all", "for", "are", "cousin", "and", "banish", "boys", "a", "beloved", "an", "a", "capulet", "cooling", "and", "and", "cousin", "boys", "central", "application", "and", "constituent", "central", "and", "boat", "application", "excellent", "a", "and", "constituent", "at", "chemical", "and", "beloved", "and", "accept", "as", "attitude", "boats", "accept", "excellent", "apple", "a",</pre>		

Test	Expected	Got
<pre>"central", "and", "chorus", "entertainment", "a", "entertainment", "chorus", "are", "are", "discover", "apple", "cooking", "boating", "and", "application", "and", "and", "boys", "earth", "and", "and", "a", "as", "and", "boats", "both", "and", "and", "a", "canals", "and", "and", "cousin", "falls", "capulet", "after", "falls", "count", "day", "a", "feuding", "a", "feast", "accept", "after", "as", "as", "capulets", "an", "and", "application", "a", "an", "apple", "but", "an", "feuding", "falls", "concept", "fluids", "cousin", "currying", "and", "but", "application", "boats", "and", "cooking", "also", "application", "chemical", "by", "chorus", "as", "attitude", "a", "and", "at", "at", "and", "and", "are", "banish", "currying", "day", "as", "agressive", "and", "both", "banish", "agressive", "and", "are", "constituent", "and", "an", "and", "currying", "each", "a", "are", "currying", "and", "concept", "apple", "all", "amper", "an", "daughter", "a", "and", "an", "and", "falls", "fluids", "a", "agree", "canals", "chemical", "capulet", "but", "and", "application", "banish", "composed", "earth", "and", "constituent", "fluids", "fishing", "both", "excellent", "and", "cooking", "and", "currying", "capulets", "benvolio", "day", "also", "as", "fishing", "cooking", "a", "and", "boats", "and", "after", "a", "boating", "and", "and", "earth", "all", "and", "and", "feast", "and", "family", "but", "currying", "feuding", "a", "and", "boats", "count", "all", "count", "cousin", "faction", "another", "a", "boat", "a", "and", "and", "and", "but", "and", "capulet", "a", "both", "currying", "colorless", "banish", "boat", "amper", "are", "but", "and", "fluids", "cooking", "cousin", "and", "accept", "cooking", "application", "as", "banish", "accept", "a", "cooling", "as", "and", "composed", "daughter", "as", "at", "and", "chemical", "and", "each", "for", "and", "a", "and", "daughter", "falls", "daughter", "earth", "boats", "a", "amper", "and", "currying", "and", "agree", "feast", "an", "and", "and", "are", "an", "fight", "concept", "and", "an", "chorus", "and", "apple", "banish", "as", "and", "and", "day", "banish", "and", "capulet", "are", "and", "family", "and", "boys", "cooking", "and", "earth", "and", "capulet", "and", "canals", "chorus", "for", "boating", "another", "faction", "and", "and", "boat", "a", "and", "and", "attitude", "chorus", "count", "after", "and", "currying", "faction", "composed", "boat", "currying",</pre>		

Test	Expected	Got
"falls", "cooking", "fishing", "accept", "earth", "attitude", "capulets", "an", "after", "and", "an", "fishing", "a", "cooking", "beloved", "banish", "amper", "family", "both", "discover", "and", "and", "each", "at", "feuding", "agree", "entertainment", "for", "are", "agressive", "boys", "an", "each", "and", "currying", "daughter", "diving", "and", "and", "another", "and", "families", "after", "and", "cooking", "currying", "and", "agree", "and", "as", "and", "for", "benvolio", "boat", "another", "colorless", "capulet", "and", "and", "as", "and", "composed", "cousin", "amper", "all", "and", "and", "chemical", "agree", "fishing", "constituent", "as", "benvolio", "application"}; cout << longestSublist(words);		

Passed all tests! ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 5

Chính xác

Điểm 1,00 của
1,00

The array N contains positive integers (including n elements) and positive integer k ($k \leq n$). Divide array N into sub-arrays satisfying the following rules:

- Each sub-array contains contiguous elements in array N.
- Each element in array N belongs to only one sub-array.
- Number of elements in each sub-array is less than or equal k.

Let S-value of each sub-array is the product of the largest element in this sub-array and the size of this sub-array. A way W, following these above rules, divides this array N into sub-arrays. $S(W)$ is the sum of all S-values from all sub-arrays created by the way W. The way having the largest value $S(W)$ is called W_{\max} .

Request: Implement function

```
int maxSum(int* nums, int n, int k)
```

Where `nums` is array N, `n` is the size of array N and `k` is described above; return the result is the $S(W)$ of the way W_{\max} .

Example:

```
nums []={1,6,3,2,2,5,1}; k=3;
```

The result is 35. The way W_{\max} to divide the array is: {1,6,3}, {2}, {2,5,1}; the S-values of each sub-arrays is $6 * 3 = 18$, $2 * 1 = 2$ and $5 * 3 = 15$, respectively; therefore, the sum of all S-values is 35.

Note: In this exercise, library `iostream` and using namespace `std` has been used. You can add other functions but not libraries.

For example:

Test	Result
<pre>int arr[] = {1,6,3,2,2,5,1}; int length = sizeof(arr) / sizeof(arr[0]); cout << maxSum(arr, length, 3) << "\n";</pre>	35

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)

Reset answer

```
1 #include <vector>
2
3 int maxSum(int* nums, int n, int k) {
4     vector<int> dp(n + 1, 0);
5
6     for (int i = 1; i <= n; i++) {
7         int maxVal = 0;
8         for (int j = i; j >= max(1, i - k + 1); j--) {
9             maxVal = max(maxVal, nums[j - 1]);
10            dp[i] = max(dp[i], dp[j - 1] + maxVal * (i - j + 1));
11        }
12    }
13
14    return dp[n];
15 }
```



	Test	Expected	Got	
✓	int arr[] = {1,6,3,2,2,5,1}; int length = sizeof(arr) / sizeof(arr[0]); cout << maxSum(arr, length, 3) << "\n";	35	35	✓

Passed all tests! ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi**6**

Đúng một phần

Điểm 0,10 của
1,00

Given an array of integers and an non-negative integer **k**.

Your task is to implement a function with following prototype:

```
int minimumAmplitude(vector<int>& nums, int k);
```

The function returns the minimum value of `max(nums) - min(nums)` after removing a sublist with length **k** from array `nums`.

Note:

- The `iostream`, `vector` and `climits` libraries have been included and `namespace std` is being used. No other libraries are allowed.
- You can write helper functions.

For example:

Test	Result
<pre>vector<int> nums {9, 6, 2, 1, 10, 7}; int k = 2; cout << minimumAmplitude(nums, k);</pre>	4

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)

```

1 void sort(vector<int>& nums){  
2     int n = nums.size();  
3     for (int i = 0; i < n; i++){  
4         int min_pos = i;  
5         for (int j = i + 1; j < n; j++){  
6             if (nums[j] < nums[min_pos]){  
7                 min_pos = j;  
8             }  
9         }  
10        swap(nums[min_pos], nums[i]);  
11    }  
12}  
13

```

```

14 int minimumAmplitude(vector<int>& nums, int k) {
15     sort(nums);
16     int n = nums.size();
17     if (k > n){
18         return -1;
19     }
20     int r = n - k -1;
21     int min_value = 1e9;
22     for (int l = 0; l <= k; l++){
23         min_value = min(min_value, nums[r] - nums[l]);
24         r++;
25     }
26     return min_value;
27 }
```

	Test	Expected	Got	
✓	vector<int> nums {9, 6, 2, 1, 10, 7}; int k = 2; cout << minimumAmplitude(nums, k);	4	4	✓
✗	vector<int> nums {375, 8734, 7366, 433, 1063, 371, 412, 6424, 3680, 4100}; int k = 3; cout << minimumAmplitude(nums, k);	6053	3729	✗
✗	vector<int> nums {5344, 4704, 7723, 3528, 3427, 3530, 1754, 7454, 5405, 290, 4765, 6172, 1003, 5975, 1775, 1922, 5239, 2447, 5968, 2641}; int k = 7; cout << minimumAmplitude(nums, k);	5882	3651	✗

	Test	Expected	Got	
✖	<pre>vector<int> nums {8217, 8261, 3511, 7858, 5583, 560, 7904, 132, 3163, 7842, 1387, 4308, 6635, 8734, 5147, 6452, 9752, 2512, 9103, 4873, 4691, 8334, 2757, 2061, 8017, 2942, 5114, 3073, 3001, 8184, 52, 550, 8683, 4589, 5236, 5053, 2948, 7432, 5862, 9389, 7487, 4739, 4123, 86, 4254, 2606, 1817, 6196, 1897, 652, 2529, 7078, 9910, 5150, 5282, 6559, 5321, 2644, 9292, 6029, 110, 9440, 3607, 1896, 8629, 2574, 1701, 1037, 9837, 4674, 2485, 1628, 1477, 5744, 1833, 3342, 2687, 7681, 6699, 6907, 949, 7572, 6811, 827, 4944, 6404, 2828, 2683, 1527, 297, 8240, 9251, 4837, 9201, 6497, 7477, 8703, 1232, 2978, 7176, 4804, 9286, 3269, 8551, 981}; int k = 37; cout << minimumAmplitude(nums, k);</pre>	9700	6066	✖

Test	Expected	Got	
✖ vector<int> nums {1838, 5396, 1702, 2849, 3015, 8800, 7222, 9907, 1317, 47, 668, 9368, 76, 7351, 7458, 3942, 9423, 7466, 119, 8547, 7514, 181, 7807, 9276, 6659, 9960, 6574, 508, 6542, 598, 8406, 3612, 4512, 2687, 2940, 3078, 9590, 3597, 977, 1214, 6328, 6555, 896, 1859, 6232, 1757, 6035, 6850, 5055, 524, 4603, 3564, 8282, 560, 5872, 2345, 4016, 995, 8517, 1965, 3464, 4179, 1648, 1482, 1144, 1240, 985, 3878, 849, 8984, 1808, 6447, 4106, 1751, 1316, 9468, 7177, 5827, 8434, 917, 8265, 8927, 6042, 6422, 7721, 6205, 6616, 240, 5537, 4242, 8641, 2288, 795, 9973, 9628, 9940, 2239, 2200, 2292, 1307, 8510, 6922, 2027, 5789, 3364, 4923, 2257, 3867, 3320, 8226, 4085, 6040, 6934, 9996, 4060, 2600, 8655, 3446, 2016, 7992, 927, 7084, 9594, 3422, 895, 7395, 7826, 1810, 7515, 132, 7958, 7501, 8199, 8106, 6042, 8048, 4798, 479, 1455, 2809, 3436, 3585, 6215, 738, 5388, 1707, 6760, 2586, 1204, 1809, 5071, 6489, 3568, 8187, 6966, 3390, 3420, 1830, 7209, 6842, 5910, 3655, 6486, 9602, 7299, 9202, 980, 7265, 2785, 5178, 4053, 1821, 3596, 6346, 9070, 3227, 4405, 4387, 3046, 8485, 8320, 631, 9805, 4619, 4365, 2405, 5456, 5224, 6394, 5702, 2538, 1718, 2807, 2040, 1021, 836, 1561, 1144, 4993, 1639, 915, 901, 2604, 4207, 8242, 1379, 2387, 8652, 3976, 718, 3071, 176, 5787, 2447, 4036, 9895, 5135, 1412, 7166, 8036, 673, 1866, 4061, 45, 5573, 9678, 7650, 3275, 5107, 3605, 26, 762, 4765, 4649, 5995, 4888, 4645, 2293, 2461, 1852, 8845, 1266, 555, 8084, 526, 1299, 1065, 9524, 6908, 4765, 1609, 7019, 9946, 220, 1353, 2360, 8026, 7778, 8798, 1229, 9352, 4993, 6279, 9459, 6360, 1307, 1595, 6559, 2909, 2504, 9381, 9059, 9131, 1720, 9393, 5943, 1215, 9961, 759, 3178, 2702, 9915, 168, 2372, 7963, 9394, 2246, 1662, 7661, 972, 4297, 5092, 8544, 2452, 511, 9481, 6939, 5350, 3107, 9692, 5970, 8628, 5954, 1738, 8012, 120, 890, 803, 440, 9947, 8468, 1922, 1979, 3893, 9939, 375, 6845, 3989, 7293, 9575, 9494, 9012, 9690, 5799, 2531, 1862, 2203, 1204, 1421, 9137, 9948, 3607, 2364, 480, 8781, 9975, 4039, 2394, 3757, 256, 847, 7039, 6104, 3746, 3421, 8850, 4356, 621, 8777, 109, 9142, 7420, 9453, 8466, 1322, 3135, 9529, 6142, 7394, 3005, 9480, 4611, 5102, 8169, 691, 3222, 1021, 9093, 3284, 1285, 8579, 740, 2382, 221, 3836, 9109,	9910	4819	✖

	Test	Expected	Got
	2155, 7595, 4257, 3245, 4310, 5362, 8696, 1747, 5450, 6557, 4016, 9122, 9514, 8645, 3149, 4651, 7235, 9909, 7264, 3785, 5151, 6908, 8555, 5801, 8267, 5730, 3348, 8169, 3355, 5519, 88, 7088, 2525, 6985, 7890, 8927, 1291, 3324, 2348, 2199, 1845, 2862, 4469, 4634, 6366, 6995, 7555, 70, 7254, 1679, 7003, 1408, 5544, 8635, 3823, 3741, 7956, 1482, 695, 71, 448, 2155, 9843, 4765, 8091, 65, 3680, 1660, 5938, 1842, 281, 9181, 7750, 4845, 1248, 1087, 4029, 7552, 1421, 1191, 1321, 8297, 2294, 836, 8966, 1467, 7520, 1784, 535, 9411, 3429, 4516, 7636, 3627, 6342, 7843, 1629, 6702, 6386, 1515, 1762, 7501, 9240, 1727, 421, 2322, 5866, 3208, 6512, 8180, 419, 3028, 3204, 9418, 2986, 9647, 881, 5507, 1367, 4658, 637, 1045, 6229, 122}; int k = 227; cout << minimumAmplitude(nums, k);		

Test	Expected	Got	
✖ vector<int> nums {4450, 2935, 6136, 9907, 4057, 3782, 4944, 6686, 2192, 2934, 2659, 66, 1475, 4756, 9112, 3062, 6171, 9682, 7097, 2464, 8933, 4300, 6211, 7338, 3235, 8540, 6457, 7446, 1761, 4827, 414, 1248, 3722, 4473, 6019, 1859, 1980, 1696, 6909, 9279, 1882, 5444, 3178, 298, 9297, 4077, 7158, 3332, 9757, 119, 6457, 5311, 2348, 7369, 2275, 1070, 9635, 3302, 299, 1309, 5120, 1633, 9253, 3858, 6127, 9684, 6738, 2963, 3617, 1123, 1900, 3305, 5738, 1308, 6690, 6227, 7707, 8145, 3120, 9533, 5439, 9514, 8738, 9841, 1513, 3556, 2347, 2703, 7662, 9519, 5857, 9642, 7919, 1575, 4940, 8851, 8762, 1632, 1759, 6554, 7152, 168, 7189, 9602, 3274, 8487, 3664, 1861, 9480, 9594, 2830, 663, 5035, 6145, 2381, 5087, 1988, 2677, 5169, 6964, 6860, 5054, 6035, 2996, 3925, 9844, 2860, 3802, 9857, 421, 2802, 2897, 2754, 358, 226, 6788, 4065, 1981, 1135, 9832, 6611, 3407, 1225, 109, 7656, 8101, 2386, 2544, 246, 6900, 4125, 9125, 6838, 6509, 3688, 1619, 3357, 6754, 268, 2368, 4941, 6586, 2610, 1950, 4269, 39, 3096, 6790, 4983, 9990, 1621, 5237, 2001, 2455, 649, 1796, 8014, 9438, 2008, 5101, 277, 9048, 2776, 538, 2802, 9218, 6537, 2687, 108, 4967, 1829, 3211, 7911, 4936, 2184, 5068, 1994, 5441, 2530, 4849, 6804, 4986, 1434, 4563, 8843, 4731, 5317, 1894, 885, 2947, 5527, 876, 9754, 8763, 3786, 7564, 25, 7254, 9485, 7537, 2827, 5036, 9614, 3845, 7189, 9015, 4619, 6064, 3746, 7918, 9894, 3980, 7600, 8176, 7911, 9531, 1241, 579, 2390, 954, 2181, 5694, 1017, 6615, 30, 6339, 9994, 2642, 9380, 8961, 6765, 9968, 3842, 7097, 7568, 6790, 7873, 6639, 196, 2916, 5483, 6708, 9500, 3279, 8275, 6738, 6644, 483, 9747, 5463, 3667, 1769, 2342, 709, 2035, 8758, 2743, 4425, 8881, 4292, 4570, 5883, 3632, 5173, 233, 4709, 2579, 6180, 4049, 6056, 5755, 3295, 687, 635, 4765, 5154, 5333, 2118, 9784, 229, 6897, 9966, 2821, 1514, 2944, 6993, 5936, 6207, 4911, 3557, 2566, 3275, 4898, 3835, 831, 806, 2761, 5482, 3406, 8393, 6479, 2553, 1927, 9033, 980, 877, 9281, 2558, 8110, 1733, 2203, 1273, 7212, 7025, 932, 6837, 2859, 3354, 3861, 9260, 1069, 3854, 578, 1965, 2502, 7371, 8434, 8685, 5864, 446, 3450, 5885, 450, 156, 7601, 1658, 5508, 4801, 8511, 6218, 1542, 7270, 871, 7509, 8890, 233, 6487, 466, 9328, 9032, 5213, 5140, 2200, 3325,	9992	5234	✖

Test	Expected	Got	
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Test	Expected	Got	
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Test	Expected	Got	
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Test	Expected	Got	
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Test	Expected	Got	
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Test	Expected	Got	
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Test	Expected	Got	
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Test	Expected	Got	
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Test	Expected	Got	
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Test	Expected	Got	
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Test	Expected	Got	
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Test	Expected	Got	
<pre>1813, 7483, 3077, 9062, 9609, 4608, 2408, 3303, 9447, 7918, 3540, 8109, 9637, 2661, 3819, 4724, 2365, 904, 4164, 326, 8832, 1057, 5840, 7566, 9198, 8532, 256, 4589, 8932, 2696, 518, 8077, 5749, 2707, 4777, 8149, 428, 6614, 5196, 4092, 7376, 2457, 417, 9761, 1465, 8071, 1338, 2874, 5474, 9406, 3632, 539, 208, 656, 9752, 1130, 4210, 3277, 1523, 2513, 4250, 1173, 6532, 8275, 6267, 4488, 1288, 1059, 5010, 560, 321, 9553, 7770, 7218, 8691, 1030, 875, 817, 9827, 8114, 8387, 5283, 5084, 1844, 7640, 5800, 5892, 9098, 2748, 7240, 2990, 5193, 4753, 812, 1665, 7135, 8735, 5985, 9626, 7704, 7349, 968, 3485, 8622, 7100, 2673, 4066, 1300, 5138, 2361, 4157, 8484, 2405, 5585, 30, 5751, 2014, 4786, 3723, 1270, 3601, 2238, 4011, 2766, 6530, 1544, 2628, 1641, 7626, 8134, 6870, 3963, 9690, 3749, 7914, 9194, 6479, 911, 5078, 3154, 9159, 25, 1186, 9912, 3475, 7904, 3888, 8045, 2477, 8373, 1927, 9797, 2972, 9557, 4000, 1336, 9461, 9150, 5349, 8361, 356, 5183, 1239, 9990, 8076, 8976, 7743, 3215, 9963, 6258, 327, 8986, 561, 4664, 1449, 5141, 4947, 5910, 2136, 7710, 9195, 4249, 5631, 4720, 4466, 2103, 3511, 5743, 1681, 7416, 3276, 54, 6212, 4693, 2706, 9135, 6800, 6416, 1860, 3283, 7943, 1893, 6781, 8850, 5225, 7455, 4698, 3109, 4813, 8285, 320, 769, 593, 7030, 9178, 8431, 9102, 6091, 3158, 5099, 2351, 4285, 8001, 762, 1891, 7535, 7920, 1791, 3953, 8301, 64, 4351, 3756, 1533, 5936, 9843, 5591, 7572, 5438, 2334}; int k = 15706; cout << minimumAmplitude(nums, k);</pre>			

Test	Expected	Got	
✖ vector<int> nums {2557, 5118, 3680, 4422, 8261, 8898, 1210, 4230, 9978, 3623, 1715, 4422, 4630, 5868, 7947, 5960, 9590, 5289, 1550, 8645, 8256, 9677, 6490, 5377, 9444, 3192, 7797, 5122, 8354, 9083, 8153, 7666, 6796, 4972, 5473, 8387, 3645, 2030, 153, 8450, 3835, 6721, 2176, 9103, 7481, 6902, 4193, 9932, 1120, 4357, 9043, 2708, 6832, 6162, 4894, 5423, 5969, 1246, 47, 2771, 7294, 266, 4862, 8140, 9620, 4993, 77, 6751, 1351, 566, 5779, 1163, 5510, 1564, 1802, 8626, 4336, 5877, 8902, 7191, 1864, 7501, 8104, 2840, 4277, 2503, 7105, 1149, 9228, 5624, 7131, 4049, 4354, 1139, 804, 9217, 2956, 4821, 3996, 7571, 6474, 5714, 961, 7481, 6164, 2863, 1881, 9014, 851, 8482, 4897, 8528, 3171, 4391, 4067, 5686, 7767, 5364, 8557, 2756, 654, 223, 6623, 5493, 3653, 9231, 4980, 7624, 9277, 9696, 4166, 1622, 5502, 9595, 8156, 4387, 7500, 5396, 741, 1779, 6841, 2390, 7353, 6607, 4171, 5836, 1005, 1688, 1407, 3394, 9800, 6780, 7758, 9004, 2068, 6358, 6239, 9588, 5975, 4730, 7134, 7690, 1794, 1777, 7387, 1847, 473, 9042, 70, 5074, 2677, 2227, 7354, 7255, 1031, 7038, 7303, 2709, 7262, 7846, 3460, 6151, 970, 2700, 3060, 1525, 5746, 7997, 2857, 940, 259, 4847, 5623, 2475, 6825, 860, 5242, 5791, 6147, 7709, 3898, 2338, 7954, 2219, 6062, 6415, 8579, 4530, 5551, 5945, 4382, 1112, 4654, 716, 2861, 1868, 7929, 4644, 4208, 7250, 8410, 1229, 9425, 1390, 1616, 3323, 708, 1022, 4642, 1195, 2993, 6829, 6161, 8762, 1108, 3574, 1869, 2420, 3301, 3974, 7979, 4847, 948, 7765, 9878, 617, 8615, 3045, 1508, 6352, 7208, 9212, 4730, 385, 7416, 7951, 834, 4034, 8089, 9904, 9787, 9812, 9482, 250, 3506, 3219, 2643, 7433, 2304, 4272, 2548, 4896, 1428, 1553, 5978, 5109, 947, 295, 962, 2399, 9021, 1936, 8768, 2771, 6114, 4782, 6066, 9995, 4004, 2313, 3424, 6169, 110, 2608, 903, 3691, 4198, 2949, 103, 3199, 127, 8490, 7098, 1464, 8818, 1030, 8294, 5937, 6605, 8940, 8820, 738, 3469, 7822, 1649, 609, 8249, 7246, 9557, 394, 3470, 390, 1603, 5042, 6434, 7001, 3200, 3048, 1507, 5256, 4232, 1294, 9488, 9737, 7309, 8023, 843, 1078, 7153, 9601, 5293, 7730, 5158, 3508, 3930, 7729, 7347, 3659, 3751, 2584, 7194, 9427, 6585, 8866, 4552, 7234, 9279, 6853, 7437, 6091, 4787, 277, 7277, 3166, 4237, 1895, 1430, 788, 4281, 9561,	9999	***Time limit exceeded***	✖

Test	Expected	Got	
8850, 3708, 2378, 8752, 3599, 3568, 31, 5441, 8862, 1116, 7700, 6516, 633, 2015, 4012, 1174, 7400, 4482, 8862, 8014, 4262, 7993, 6702, 3746, 223, 1288, 5149, 6363, 7292, 617, 9219, 5479, 5651, 4123, 7388, 6077, 121, 1180, 1937, 8646, 5161, 5962, 9337, 2282, 2186, 486, 2495, 6344, 9547, 2314, 9558, 2779, 7746, 1341, 7690, 7001, 2790, 6388, 2697, 5453, 3385, 1307, 754, 5128, 8554, 3269, 9548, 2995, 3050, 5712, 5898, 2328, 2254, 4973, 4829, 9570, 3748, 1807, 1019, 3474, 6361, 4513, 2671, 2659, 6010, 6124, 4273, 1440, 8970, 5753, 5976, 7925, 3316, 2996, 61, 404, 2833, 1827, 2241, 9241, 1371, 5014, 5937, 1535, 9347, 414, 7273, 1748, 5104, 7586, 2951, 1722, 4714, 1424, 3666, 8384, 598, 1441, 747, 1297, 5954, 4928, 4850, 7291, 7508, 8764, 7164, 6035, 6958, 8732, 1315, 999, 884, 499, 2159, 9683, 4385, 8341, 6692, 6936, 5623, 9608, 9435, 4154, 5749, 6110, 6006, 9897, 2638, 6562, 3022, 3635, 744, 4944, 2271, 743, 9810, 9099, 4327, 2349, 3673, 9481, 4011, 1972, 3581, 3761, 5210, 3020, 9584, 3065, 2806, 4166, 2559, 1529, 9392, 8361, 1043, 5428, 9011, 8054, 1146, 935, 6484, 3886, 5234, 8930, 9192, 226, 886, 824, 2663, 2506, 7228, 7826, 31, 4010, 5501, 6568, 6284, 3395, 5895, 5458, 2263, 9990, 3824, 4412, 7821, 4767, 1980, 2793, 4465, 3999, 4721, 345, 8132, 313, 6665, 9966, 7956, 5826, 4823, 9243, 8291, 6963, 5070, 3006, 474, 944, 574, 2560, 2653, 9950, 240, 1882, 3104, 1873, 1380, 3962, 3034, 7699, 376, 4342, 8313, 9788, 2620, 6288, 2743, 5710, 9941, 459, 7836, 7920, 2527, 3229, 8947, 78, 8918, 6358, 1665, 8591, 7846, 7248, 9363, 199, 6577, 2486, 8600, 6493, 5073, 6058, 3888, 479, 2319, 2770, 8962, 3925, 6452, 2131, 1172, 6772, 7005, 8305, 566, 2261, 5556, 7366, 7376, 741, 1997, 1937, 8558, 6445, 1486, 1856, 7544, 4484, 9299, 8449, 3415, 5284, 8176, 5685, 2549, 3098, 2633, 1798, ...snip... 2584, 13, 5988, 8441, 828, 7103, 7588, 825, 3856, 9526, 8854, 4222, 9038, 2066, 6395, 3112, 8102, 697, 575, 9441, 2475, 3579, 5953, 1565, 1838, 9512, 1940, 835, 4239, 3201, 7478, 2731, 7169, 6301, 527, 2488, 8862, 5293, 6172, 2744, 1979, 4530, 2877, 2073, 3580, 1037, 875, 702, 1675, 8343, 9919, 9043, 5637, 9314, 4190, 429, 7573, 2944, 4569, 5670, 7286, 610, 5861, 2039, 4691, 9700, 4277, 7270, 1281,			

Test	Expected	Got	
2695, 5553, 819, 464, 6415, 7889, 3757, 2381, 7182, 8890, 7435, 7964, 624, 3613, 9128, 3348, 9561, 9500, 9022, 3435, 4220, 3006, 2278, 2324, 7790, 2165, 5886, 7077, 2618, 3742, 2540, 3182, 4981, 5833, 163, 471, 2661, 714, 2531, 8330, 3422, 495, 8566, 17, 9981, 4226, 1880, 8321, 984, 1777, 2007, 6391, 7237, 2061, 8892, 3473, 7803, 2624, 9303, 6800, 4758, 5858, 146, 1052, 9807, 5005, 7759, 3705, 5275, 4143, 8211, 6777, 5731, 5329, 2295, 2499, 7220, 8598, 4973, 6354, 4999, 1574, 8688, 8417, 5956, 2508, 5839, 4549, 2930, 5820, 891, 2411, 2498, 1832, 9119, 6612, 4046, 6181, 8000, 5181, 7403, 2474, 564, 7236, 2694, 9225, 1464, 7849, 447, 9537, 2636, 4017, 3935, 4563, 8546, 7569, 4399, 2163, 3400, 3529, 4668, 994, 2194, 238, 3974, 1610, 3355, 204, 1016, 2057, 7149, 3228, 7789, 8737, 1455, 8915, 5952, 9295, 782, 6283, 6132, 6891, 7360, 9270, 9334, 5999, 2933, 2447, 7728, 4812, 3950, 5316, 959, 9738, 2163, 2689, 8456, 1102, 9471, 7406, 486, 5984, 4415, 9485, 9703, 4701, 5467, 5180, 5288, 3307, 7908, 6866, 813, 939, 5423, 4232, 4725, 9028, 3376, 2196, 8398, 206, 5355, 7278, 8965, 3227, 6086, 9949, 2513, 6029, 5107, 2418, 6977, 900, 877, 3368, 4786, 6406, 977, 9097, 2469, 9684, 9599, 6437, 3857, 6235, 8593, 3487, 85, 1912, 508, 2040, 7232, 2368, 964, 5408, 7829, 3295, 4964, 8281, 8313, 2543, 4462, 4671, 8687, 4859, 5024, 373, 278, 5860, 153, 7890, 5713, 900, 26, 684, 2999, 6065, 2431, 5779, 1836, 8036, 7904, 7745, 2352, 1291, 8995, 928, 7607, 6892, 1669, 4494, 6392, 8299, 7225, 7757, 3033, 9342, 9984, 9309, 3484, 3806, 7882, 1245, 7987, 81, 3531, 7535, 6041, 7990, 6289, 9549, 5620, 3136, 1013, 2857, 3013, 6775, 2080, 6457, 338, 555, 6480, 8706, 1815, 2458, 4108, 2196, 6648, 7108, 3524, 1223, 7306, 2494, 1148, 244, 403, 2708, 6330, 6535, 846, 2, 7774, 7395, 1827, 8068, 2690, 2535, 5767, 3516, 7714, 7072, 2816, 8708, 1550, 1583, 780, 5685, 9614, 2668, 2611, 4343, 6357, 4315, 7481, 5674, 9656, 2894, 4360, 4917, 2049, 2235, 6414, 9900, 5519, 1616, 1763, 1575, 432, 4180, 9998, 6017, 6114, 6479, 9976, 895, 4743, 7101, 6785, 1842, 9271, 6318, 3217, 9581, 2762, 9026, 9810, 3067, 6902, 2436, 2172, 6891, 8949, 5268, 9041, 8686, 9179, 1433, 5947, 1987, 1911, 1271,			

Test	Expected	Got	
<pre>6226, 4752, 1288, 6381, 1506, 9011, 7490, 9778, 1692, 9065, 4096, 7218, 2748, 6480, 8268, 1875, 5691, 5896, 7405, 3501, 2598, 2240, 2704, 9577, 623, 6094, 6667, 7464, 6883, 5518, 3902, 6136, 9499, 1695, 8267, 9875, 3542, 2841, 4167, 216, 199, 4228, 7201, 830, 6395, 3814, 9202, 4390, 4894, 6891, 6710, 4881, 9150, 6922, 3626, 6882, 5888, 6133, 2454, 8324, 3522, 3505, 3358, 575, 465, 4791, 3107, 4216, 1436, 4522, 3791, 4022, 9833, 5705, 8881, 2316, 9638, 2712, 7605, 2484, 4482, 4746, 8616, 7832, 1789, 9250, 2203, 2215, 5165, 8779, 9269, 1254, 1266, 9635, 7406, 8005, 909, 9023, 121, 1892, 6988, 4076, 2786, 1189, 8185, 610, 1529, 2067, 565, 2189, 157, 7076, 7119, 9663, 3484, 7771, 4153, 5424, 8026, 6689, 8844, 8279, 8096, 5957, 266, 5486, 6743, 2385, 7141, 9809, 181, 6783, 3983, 8343, 2215, 8412, 8449, 4789, 256, 3564, 3088, 847, 8177, 9630, 8300, 576, 4394, 9809, 7403, 6763, 863, 1959, 150, 4851, 6478, 3529, 8818, 4984, 544, 5451, 8306, 9603, 9646, 9698, 9883, 357, 7783, 6771, 9416, 59, 6735, 1054, 3727, 708, 4857, 7690, 9123, 7925, 6521, 5986, 843, 1405, 7891, 7457, 3444, 7445, 7448, 7530, 5506, 7179, 9858, 5020, 4685, 6831, 5901, 1140, 6905, 4428, 2601, 5123, 2710, 8043, 3661, 4641, 9290, 613, 6335, 6577, 7979, 3656, 2225, 2503, 1298, 6444, 5390, 1464, 380, 9286, 7829, 5681, 9827, 6237, 7605, 4987, 6620, 1419, 2890, 5773, 946, 3829, 4422}; int k = 22866; cout << minimumAmplitude(nums, k);</pre>			

Show differences

Đúng một phần

Điểm cho bài nộp này: 0,10/1,00.

Câu hỏi**7**

Chính xác

Điểm 1,00 của
1,00

You are given a list of integers **positions** with **n** elements ($1 \leq n \leq 100000$), each element represents the position of a person at equally spaced intervals of time.

Request: Implement function:

```
int steadySpeed(vector<int>& p);
```

Where **positions** is the list of position of a person. This function returns the length of the longest sublist where the person was traveling at a constant speed.

Example:

The list of position is **{5, 4, 3, 5, 4, 5, 1, 3, 5, 3}**. Therefore, the length of the longest sublist where the person was traveling at a constant speed is **4** (It is **{1, 3, 5, 3}**, with constant speed is **2**).

Note:

In this exercise, the libraries **iostream, string, cstring, climits, utility, vector, list, stack, queue, map, unordered_map, set, unordered_set, functional, algorithm** has been included and **namespace std** are used. You can write helper functions and classes. Importing other libraries is allowed, but not encouraged, and may result in unexpected errors.

For example:

Test	Result
<pre>vector<int>positions{5,4,3,5,4,5,1,3,5,3}; cout << steadySpeed(positions);</pre>	4
<pre>vector<int> positions{0, 3, 6, 3, 0}; cout << steadySpeed(positions);</pre>	5

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)

```
1 ▾ int steadySpeed(vector<int>& positions) {  
2     multiset <int> ms;  
3     int n = positions.size();  
4 ▾     if (n == 1) {  
5         return n;
```

```
b
7 } else if (n == 2) {
8     return abs(positions[1] - positions[0]);
9 }
10 int ans = 0;
11 ms.insert(positions[0]);
12 ms.insert(positions[1]);
13 int cur = abs(positions[1] - positions[0]);
14 for (int i = 2; i < n; i++){
15     int tmp = abs(positions[i] - positions[i - 1]);
16     if (tmp == cur){
17         ms.insert(positions[i]);
18     }
19     else {
20         ms.clear();
21         ms.insert(positions[i]);
22         ms.insert(positions[i - 1]);
23         cur = tmp;
24     }
25     if (ans < ms.size()) ans = ms.size();
26 }
27 return ans;
28 }
```

--	--	--	--	--

	Test	Expected	Got	
✓	vector<int>positions{5,4,3,5,4,5,1,3,5,3}; cout << steadySpeed(positions);	4	4	✓

Passed all tests! ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi 8

Chính xác

Điểm 1,00 của
1,00

Given an array of integers sorted in ascending order and an integer `target`.

Your task is to implement a function with following prototype:

```
int sumLessThanTarget(vector<int>& nums, int target);
```

The function returns the largest sum of the pair of the numbers in `nums` whose sum is less than `target`.

The testcases ensure that a solution exists.

Note:

- The `iostream`, `vector` and `climits` libraries have been included and namespace `std` is being used. No other libraries are allowed.
- You can write helper functions.

For example:

Test	Result
<pre>vector<int> nums {1, 2, 3, 5, 6, 9}; int target = 7; cout << sumLessThanTarget(nums, target);</pre>	6

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)

[Reset answer](#)

```

1 int sumLessThanTarget(vector<int>& nums, int target) {
2     int n = nums.size();
3     int maxSum = INT_MIN;
4     int left = 0;
5     int right = n - 1;
6
7     while (left < right) {
8         int sum = nums[left] + nums[right];
9         if (sum < target) {
10             maxSum = max(maxSum, sum);
11             left++;
12         } else {
13             right--;
14         }
15     }
16
17     return maxSum;
18 }
```

```
14     }
15 }
16
17     return maxSum;
18 }
```

	Test	Expected	Got	
✓	vector<int> nums {1, 2, 3, 5, 6, 9}; int target = 7; cout << sumLessThanTarget(nums, target);	6	6	✓
✓	vector<int> nums {18392640, 447224685}; int target = 765618120; cout << sumLessThanTarget(nums, target);	465617325	465617325	✓
✓	vector<int> nums {3274164, 26687368, 49529588, 80086665, 83966272, 98496034, 123347988, 127212839, 129654000, 140718048, 149774724, 176219652, 184851030, 217156519, 218264487, 270284968, 352939041, 389008230, 464654688, 487886517}; int target = 254426466; cout << sumLessThanTarget(nums, target);	253001988	253001988	✓

	Test	Expected	Got	
✓	<pre>vector<int> nums {433548, 1355760, 6000300, 10867569, 11672190, 11791020, 15676016, 19602602, 29204277, 36191424, 46448220, 48165468, 54370470, 55425312, 57059275, 65688816, 75028278, 75663000, 77672320, 79035400, 82892084, 87878584, 100611504, 103954739, 105073221, 105767616, 110403290, 115546008, 120415918, 125102743, 125538380, 128394552, 129679864, 131947500, 136126731, 137887530, 138872184, 154101360, 156503190, 159611730, 162446265, 185313058, 185532884, 186219604, 194213481, 197811900, 198141120, 200211380, 201091800, 208289653, 215258960, 222094880, 233294250, 234771968, 236988738, 245165670, 245224320, 265742883, 270360662, 271660182, 274862624, 290865563, 296713989, 309555288, 315219614, 322827552, 331936551, 344035656, 345390984, 366729552, 388096618, 417109884, 433022589, 451819404, 477262743, 482730050, 499542729, 507712771, 510586125, 520560625, 521857512, 558384400, 574928480, 585575262, 597902940, 602644185, 620876256, 633824282, 640029288, 656891152, 672796296, 694478169, 710638320, 715864855, 720203000, 731918484, 743465865, 793780922, 838074092, 863009709}; int target = 824127749; cout << sumLessThanTarget(nums, target);</pre>	824127283	824127283	✓

	Test	Expected	Got	
✓	vector<int> nums {148670, 867888, 875182, 903927, 1422080, 1533494, 1738175, 1829581, 2366754, 2746884, 3142854, 3397387, 3411565, 3818388, 4072660, 4693340, 4877435, 4895286, 6609120, 6974240, 7268400, 7362784, 7866086, 8927505, 9651487, 9919160, 10486815, 10898124, 11515840, 11665455, 12051825, 12078839, 12681696, 13808012, 14356794, 14715312, 14716072, 15449485, 16093836, 16403464, 16536996, 16586208, 16873126, 17639370, 18278514, 18620710, 19334477, 19573125, 19596792, 19890953, 20154854, 20847240, 20910492, 20956704, 21395512, 23491188, 24219300, 25376625, 26207340, 26439998, 26707275, 27156402, 28596360, 28904148, 29121120, 29295345, 30405660, 31031516, 31255388, 31326230, 33475500, 34216416, 35426328, 35661010, 36386076, 36968301, 37073780, 37677618, 38484086, 39821472, 40319136, 40570244, 41692800, 41960375, 42397731, 43396155, 43594304, 43637538, 43943532, 46382504, 46525930, 47257402, 47408628, 48272414, 48773663, 49092617, 51552200, 52219028, 54340608, 54823824, 56038526, 56581848, 56861523, 57358026, 57842533, 59376933, 59414712, 60450540, 64657380, 64704068, 66190706, 66206283, 66331533, 66363088, 67750410, 68037164, 68212620, 68464656, 69091002, 70376418, 71180016, 73453760, 74751230, 78195051, 79337620, 80765896, 81941310, 82345488, 82935300, 86973586, 87590514, 87658515, 89080992, 90588654, 91119595, 94258536, 94836841, 95515203, 95591678, 96806467, 96961464, 98026107, 99834679, 99865752, 100360680, 100451825, 101770466, 101895960, 101963757, 102229111, 102267975, 102494637, 103019100, 104477616, 104778188, 104846341, 107341731, 107963492, 108733898, 109158826, 110179458, 110907318, 111974994, 113254397, 114281670, 114330591, 114370320, 115988130, 116940660, 117742023, 118782777, 119693168, 120855504, 121267077, 121882341, 122320384, 123109427, 123817188, 125167334, 125570088, 126044821, 126638620, 129161994, 130268851, 130409193, 130806848, 131950566, 132255990, 132966135, 133195396, 134215206, 134761840, 136324142, 136523070, 137586610, 138553191, 138624650, 138849165, 139412350, 139658400, 139720540, 141362624, 142463701, 143412290, 143803719, 144448320, 146039950, 146350840, 147066023, 148130001, 148178548, 148912864, 152560490, 152931131, 153774571, 153798792, 154411764, 155591040,	147974352	147974352	✓

	Test	Expected	Got	
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	Test	Expected	Got	
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Test	Expected	Got	
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✓	vector<int> nums {0, 0, 0, 0, 7800, 11947, 12245, 12616, 14190, 16320, 17266, 17395, 20280, 21475, 21789, 22074, 22500, 22879, 22944, 26037, 26868, 27819, 34008, 41776, 43047, 43416, 45136, 46200, 51147, 51604, 51744, 58353, 58575, 59537, 60301, 60896, 60948, 61530, 65475, 65836, 67466, 67492, 72489, 78933, 79287, 83142, 85675, 86975, 87658, 88074, 93423, 93585, 93627, 96490, 96660, 98306, 99790, 101430, 110124, 112560, 114816, 116088, 121336, 122344, 124872, 126104, 132795, 133225, 135864, 136210, 137599, 139802, 139910, 140912, 143550, 144414, 148722, 150350, 152656, 154833, 159080, 164254, 172854, 181152, 183150, 185487, 186876, 187473, 188564, 190974, 196209, 203148, 205932, 206948, 208010, 213512, 215704, 219123, 219462, 220680, 220694, 221556, 229760, 233709, 234020, 246176, 247110, 247172, 248616, 249260, 256650, 257264, 261928, 264315, 264704, 272838, 274012, 275805, 276198, 280344, 282348, 288382, 292200, 294292, 296800, 297801, 299915, 302112, 302729, 305040, 305970, 307616, 308763, 309600, 312752, 312830, 317152, 322056, 326160, 326403, 326740, 326800, 327391, 329376, 330084, 330876, 335097, 335350, 353051, 354255, 357860, 358394, 359480, 359632, 361266, 361372, 361872, 369216, 373950, 374952, 375364, 376152, 378547, 380420, 382065, 382624, 383040, 383508, 384468, 386138, 395609, 396104, 397404, 399313, 402535, 403856, 408954, 417968, 420343, 420420, 420582, 421200, 422622, 424008, 434124, 435232, 438235, 440055, 440228, 441396, 441739, 444534, 448632, 449904, 452709, 466200, 468388, 474912, 476216, 489810, 490100, 490971, 493272, 495291, 497628, 497760, 498316, 501250, 514668, 515112, 515837, 522405, 523008, 533940, 541080, 541375, 547722, 550800, 550902, 551954, 561785, 562965, 564160, 569868, 573852, 575340, 577623, 578816, 586450, 586730, 591273, 594776, 597805, 597954, 600236, 602234, 604350, 605178, 606624, 607620, 611320, 611829, 612600, 618488, 622080, 623770, 624820, 629944, 637445, 639738, 647400, 648130, 650112, 653513, 655820, 662432, 663117, 664440, 666101, 668448, 669200, 669300, 669570, 677887, 679470, 679480, 680706, 680974, 688662, 690560, 690624, 691821, 693360, 704904, 706180, 712053, 713944, 718965, 721253, 723840, 729999, 733668, 734339, 739710, 741720, 743484, 745472, 746920, 749879, 750854, 754664, 755300, 756875, 758940,}	135596994	135596994	✓

Test	Expected	Got	
767718, 769428, 771846, 772632, 774137, 776175, 779910, 781770, 783215, 791450, 794662, 795288, 806565, 812430, 814293, 818100, 818449, 819540, 820624, 822296, 831488, 836160, 836679, 842520, 847210, 855618, 857520, 859560, 864499, 865536, 866658, 867750, 868528, 872046, 881452, 883559, 884208, 885500, 898552, 902785, 903210, 914368, 918225, 918391, 921480, 923104, 929900, 930580, 932480, 933745, 935817, 935907, 936186, 936494, 937392, 948420, 951515, 953380, 954864, 955188, 958435, 959494, 960738, 962766, 963630, 964308, 964480, 970592, 974064, 975085, 983964, 984624, 985416, 987392, 990729, 991418, 991705, 993762, 995796, 996063, 999580, 999648, 1001450, 1007895, 1008468, 1009556, 1009560, 1010170, 1011534, 1013320, 1014771, 1015008, 1017240, 1027741, 1027900, 1030722, 1033200, 1034439, 1037177, 1042500, 1043974, 1056100, 1058016, 1060000, 1061320, 1063132, 1065686, 1068768, 1072209, 1073304, 1074040, 1074906, 1078770, 1080748, 1087578, 1090844, 1093490, 1101794, 1103248, 1103900, 1105380, 1106072, 1109850, 1113324, 1118628, 1121043, 1121930, 1126447, 1126752, 1129800, 1136512, 1140552, 1140904, 1141928, 1142580, 1144080, 1145365, 1145848, 1151798, 1151850, 1152141, 1152900, 1155000, 1166760, 1167120, 1167400, 1169280, 1169675, 1171072, 1176240, 1177339, 1183000, 1183728, 1186923, 1188317, 1188366, 1191086, 1192719, 1192725, 1193562, 1198599, 1204560, 1206975, 1208088, 1209724, 1216401, 1218180, 1219695, 1220604, 1226352, 1227798, 1229334, 1230040, 1230917, 1231176, 1231434, 1235878, 1245870, 1247958, 1249906, 1251234, 1252944, 1253784, 1269066, 1271812, 1272436, 1272453, 1275942, 1276116, 1277757, 1280114, 1299070, 1302099, 1303164, 1303733, 1309218, 1309698, 1310064 ...snip..., 1069020, 951500550, 951687360, 951755980, 951795816, 951974660, 952025841, 952087968, 952128486, 952390260, 952728300, 952785024, 953061258, 953138151, 953239485, 953411732, 953525904, 953587156, 953833522, 953883840, 954100940, 954145256, 954156918, 955264244, 955331860, 955379264, 955674860, 955728389, 956046176, 956100672, 956182320, 956301255, 956462945, 956526812, 956530787, 956569575, 956601952, 956669362, 956791913, 956859552, 957668898, 958540428, 958674297, 958776919, 959349519, 959619861, 959744658, 960134372, 960222400, 960499970, 960730300, 961480632, 961517128, 961633255,			

Test	Expected	Got	
961942212, 962211020, 962723904, 963039343, 963239093, 963572136, 963628248, 963752010, 963766830, 963965776, 964514792, 964652048, 964728366, 964809828, 964888850, 965129604, 965200512, 965659844, 965796201, 965938886, 966776811, 966936744, 967053246, 967157832, 967282605, 967313620, 967321688, 967349994, 967500204, 968146650, 968748980, 968850072, 968976616, 969314796, 969405472, 969611850, 969925464, 969937380, 970207616, 970503978, 970581568, 970919202, 971147943, 971317032, 971353558, 971401904, 971510850, 971588352, 972671678, 972833058, 973267779, 973321480, 973403148, 973653564, 973751326, 973784552, 974062688, 974186752, 974556114, 974674584, 974950910, 975030375, 975364650, 975485120, 975558660, 975680424, 975799508, 975831274, 975865824, 976297768, 976493101, 976529376, 976712880, 976917909, 977030604, 977111642, 977294376, 977514692, 977724698, 977750950, 977837124, 977910050, 978022080, 978176661, 978314050, 978577236, 978913488, 978972540, 979369886, 979694240, 979988404, 981055363, 981117543, 981604092, 982022103, 982136106, 982324916, 982609257, 982924800, 982982520, 983173490, 983275716, 983415876, 983466561, 983683968, 983827695, 984196143, 984766005, 984884760, 984979584, 985041554, 986137740, 986227704, 986228421, 986267022, 986278472, 986731984, 986932308, 987023205, 987038926, 987215760, 987255057, 987558985, 987586257, 987786423, 987895860, 987935770, 988309111, 988493176, 988570123, 988729695, 988826342, 988882895, 989222565, 989610795, 989896256, 990488832, 991793802, 991895652, 992096216, 992574648, 992645766, 992748568, 992772560, 992847598, 992988880, 993099195, 993474646, 993590000, 993698742, 993895068, 993919500, 994020720, 994230062, 994528040, 994676826, 995012562, 995034125, 995047820, 995075576, 995335880, 995400744, 995426432, 995525679, 995833581, 995952048, 996152783, 996274149, 996758682, 997153520, 997950570, 998188784, 998458396, 998717336, 998858481, 999075577, 999201744, 999437160, 999885120, 999905280, 1000831948, 1000873216, 1000996152, 1001124747, 1001254450, 1001551560, 1001577663, 1002475790, 1002597420, 1002627904, 1002901240, 1002977284, 1003185028, 1003338600, 1003768416, 1003957638, 1004527862, 1004597106, 1004597748, 1005466417, 1005474300, 1005553265, 1005840549, 1006819112, 1007095760, 1007120335, 1007804878, 1007962901, 1008717600, 1008819734,			

	Test	Expected	Got	
	<pre>1009661630, 1009751977, 1009876491, 1010312754, 1010324647, 1010541860, 1010693541, 1011033312, 1011123825, 1011633680, 1012365178, 1012698856, 1013084792, 1013481821, 1014377586, 1014497110, 1015334740, 1015437755, 1015507106, 1015604373, 1015741041, 1016075844, 1016628228, 1017131025, 1017181538, 1017732506, 1017976575, 1018325176, 1020201156, 1020310740, 1020377111, 1020810588, 1021063836, 1021429719, 1021667010, 1022198982, 1022704408, 1022718800, 1022859714, 1024617452, 1024672098, 1024895436, 1025311682, 1026586408, 1026709314, 1027618026, 1028088000, 1028955704, 1029149757, 1030478246, 1030924972, 1032009632, 1032047478, 1032598476, 1034394219, 1036220458, 1036568727, 1037212275, 1037676640, 1040368888, 1041255961, 1041572895, 1041665670, 1043223637, 1043436744, 1045765472, 1046978438, 1047330650, 1048589250, 1049295840, 1049311452, 1049335762, 1049789094, 1050593733, 1053056792, 1054549678, 1056225664, 1057448552, 1058235336, 1058614712, 1059041949, 1059691356, 1059988256}; int target = 135596995; cout << sumLessThanTarget(nums, target);</pre>			

	Test	Expected	Got	
✓	vector<int> nums {0, 0, 0, 0, 2005, 2410, 2814, 4894, 5948, 7370, 8400, 9009, 9290, 11160, 11768, 11951, 12996, 13357, 15225, 16933, 17108, 17886, 18368, 18618, 19158, 21185, 23835, 24058, 24435, 24585, 25872, 27728, 28543, 30784, 31348, 31750, 34080, 34370, 34656, 34800, 36736, 37785, 38088, 39704, 40288, 40356, 40959, 41100, 42051, 45192, 46240, 46400, 46710, 49476, 50421, 53941, 55818, 56720, 57054, 58322, 60270, 61498, 61694, 63447, 63466, 65352, 66120, 66966, 68310, 68944, 70752, 71744, 71919, 73220, 73564, 74025, 74116, 74454, 75756, 77745, 80275, 80912, 81672, 82959, 83424, 83826, 84045, 84440, 84870, 85407, 86940, 88720, 89641, 91080, 92190, 94059, 97272, 98464, 99040, 105336, 107160, 108000, 108696, 110462, 116736, 118105, 118654, 123222, 123972, 124527, 125056, 125100, 129330, 129752, 130632, 132000, 132079, 132756, 133104, 139730, 141664, 143442, 145410, 145610, 146400, 154518, 157352, 158378, 160580, 163580, 164428, 168595, 170408, 173148, 175826, 177570, 179140, 180076, 181632, 183000, 184416, 184500, 184500, 185188, 186560, 188898, 189840, 190000, 190784, 191590, 192423, 195420, 198048, 202687, 202986, 205170, 206700, 207262, 207781, 210126, 213092, 213333, 214480, 215595, 215970, 220552, 222111, 222145, 223650, 227388, 228800, 229827, 230181, 231942, 232180, 233963, 235179, 236146, 239877, 241008, 243390, 244272, 244510, 246161, 246559, 249168, 252320, 255120, 259368, 260362, 260768, 261375, 261545, 261600, 261960, 262128, 262620, 263120, 265320, 266266, 271185, 271425, 274536, 274907, 275470, 275710, 276660, 281624, 282720, 283360, 290720, 293136, 295110, 296583, 301100, 302385, 303040, 304070, 304416, 306434, 306696, 308388, 309078, 309456, 312660, 312900, 313240, 313572, 314931, 315350, 316712, 317050, 317163, 317595, 319224, 319516, 324428, 326000, 326592, 326800, 326880, 330084, 330462, 330616, 332920, 334441, 340017, 341460, 342210, 343125, 343322, 345978, 352053, 352053, 353192, 353430, 354200, 357280, 360018, 360990, 364752, 365508, 366000, 366212, 367020, 367460, 367722, 368192, 368440, 368460, 368816, 371110, 371406, 371980, 373659, 373716, 376929, 378216, 382080, 384146, 385816, 386740, 390404, 398157, 401856, 402123, 403986, 405195, 405636, 406560, 407121, 407913, 409320, 409572, 413712, 414545, 415856, 417816, 421032, 421360,	77213517	77213517	✓

Test	Expected	Got	
422410, 423300, 423500, 424384, 424424, 425659, 427720, 433275, 433608, 433668, 440818, 442020, 443100, 443398, 443610, 444318, 444876, 445400, 446452, 450119, 451143, 456200, 456511, 457748, 460272, 461970, 462950, 464919, 470204, 470860, 471747, 473886, 474145, 475416, 477240, 477345, 479199, 480004, 480396, 480432, 482258, 482769, 483190, 485011, 487020, 488552, 493200, 495126, 495440, 495615, 496762, 497222, 497574, 497772, 498007, 498759, 501515, 501840, 501930, 506466, 506600, 509878, 510238, 511364, 511824, 512050, 512906, 515502, 517450, 518175, 519894, 520146, 523248, 525980, 528525, 529360, 530352, 531840, 532134, 535680, 537964, 538128, 538216, 538304, 540580, 541100, 541421, 542592, 543052, 545209, 548410, 550068, 554232, 556827, 557766, 560494, 567609, 568509, 569645, 570213, 570843, 571177, 571608, 572872, 573864, 576030, 577342, 578259, 580258, 581742, 582448, 583050, 584528, 584922, 586149, 586410, 587600, 589200, 589633, 591552, 592629, 593124, 593856, 594510, 595960, 598454, 599502, 602796, 604192, 604800, 606288, 607200, 609600, 613377, 615090, 615342, 615440, 616630, 617728, 618516, 622398, 623390, 630064, 631008, 632723, 633648, 634176, 634816, 635688, 635904, 637316, 638805, 641560, 644556, 645550, 645840, 650294, 650304, 650427, 652668, 653516, 654696, 656772, 657345, 657720, 657789, 659178, 660228, 661604, 662607, 662838, 663267, 663462, 663710, 664161, 665805, 668250, 669093, 669916, 670350, 671031, 671272, 673090, 673440, 674268, 684790, 685338, 685971, 687394, 687775, 688126, 691842, 693146, 693630, 693928, 700683, 701200, 703170, 704808, 705047, 705296, 705656, 706409, 706440, 707720, 709612, 712818, 713125, 713920, 714528, 716044, 717828, 7210 ...snip..., 986727456, 986740996, 986836944, 986850683, 986911452, 987191625, 987261660, 987504672, 987636654, 987705138, 987881420, 987921370, 988153896, 988173720, 988300032, 988342273, 988417664, 989160888, 989254345, 989590880, 989784162, 990082912, 990285220, 990313728, 990519975, 990600935, 990682350, 990758520, 991064415, 991262072, 991311770, 991398625, 991578194, 991650660, 991913727, 992258124, 992388690, 992464632, 992783680, 992812077, 992829264, 992831086, 993087651, 993329568, 993332380, 993348796, 993510076, 993571416, 993716010, 993716538, 993732285, 993791850, 993870999, 993909282, 994016000,			

Test	Expected	Got	
994048468, 994130128, 994215072, 994321248, 994404384, 994495887, 994507456, 994758505, 994955750, 995012914, 995052618, 995263260, 995415963, 995496030, 995549280, 995590250, 995666562, 995839429, 995996254, 996130656, 996181389, 996325509, 996404156, 996855090, 996917076, 996926099, 997133802, 997312860, 997946580, 998981984, 999067664, 999162481, 999203360, 999435228, 999634370, 999648000, 999706638, 999725528, 1000392455, 1000432124, 1000527255, 1000638184, 1000764345, 1000866870, 1000885336, 1001274576, 1001381444, 1001389082, 1001440755, 1001449472, 1001476872, 1001523600, 1001976437, 1001988092, 1001994253, 1002036590, 1002272117, 1002418430, 1002539524, 1002620808, 1002848660, 1002978684, 1002985788, 1003502304, 1003600820, 1003827034, 1004231272, 1004799675, 1004926152, 1004973187, 1005041700, 1005053595, 1005276382, 1005508426, 1005532784, 1005573442, 1005736587, 1005870723, 1006369644, 1006513050, 1006744500, 1006747216, 1006811026, 1007165904, 1007177910, 1007293149, 1007618420, 1007654179, 1007891588, 1007933801, 1007956279, 1008222416, 1008430311, 1009046558, 1009134831, 1009152275, 1009440000, 1009927944, 1010030736, 1010054040, 1010280078, 1010751900, 1010858994, 1010882798, 1010925468, 1011072160, 1011085350, 1011345148, 1011403100, 1011525795, 1011534881, 1011752280, 1011791599, 1011812022, 1011836043, 1011854688, 1011858120, 1012248666, 1012430200, 1012448472, 1012756976, 1012826210, 1013189187, 1013230153, 1013235272, 1013311200, 1013562990, 1014194971, 1014267486, 1014307830, 1014319278, 1014401440, 1014537000, 1014812753, 1014873839, 1014906128, 1015699014, 1015827428, 1016183079, 1016580348, 1016660827, 1016802252, 1016869668, 1017735780, 1018106538, 1018129075, 1018132350, 1018569728, 1018603208, 1018807439, 1019242907, 1019334806, 1019458016, 1019542944, 1019748864, 1020091212, 1020352704, 1020411492, 1020450816, 1020541381, 1020854520, 1021001895, 1021249240, 1021534794, 1021561348, 1021961520, 1022103387, 1023063570, 1023419612, 1023932208, 1023933960, 1024005456, 1024103743, 1024223925, 1024409661, 1024644690, 1024798250, 1025296418, 1025444677, 1026600064, 1026658820, 1026969822, 1027084300, 1027120990, 1027176710, 1027190208,			

Test	Expected	Got	
<pre>1027202275, 1027416155, 1027419030, 1027628154, 1027660350, 1027766937, 1027910520, 1027974836, 1028457612, 1028665060, 1028755896, 1029155592, 1029307431, 1030024395, 1030624664, 1030922988, 1031067876, 1032106104, 1032110880, 1032197456, 1032288147, 1033030440, 1033048545, 1033347627, 1033788512, 1034338853, 1034416544, 1034492928, 1034622675, 1034809842, 1034892180, 1036197500, 1036323964, 1036369230, 1036621700, 1037269824, 1037509300, 1037571960, 1037769086, 1037784880, 1037946714, 1038024090, 1038543642, 1038571608, 1038789216, 1039317400, 1039490300, 1039703392, 1040236506, 1040435730, 1040546250, 1040815619, 1041376637, 1041384317, 1041890736, 1043215920, 1043931611, 1045088348, 1045506008, 1045609344, 1046134236, 1046511576, 1046598090, 1046873268, 1048206600, 1049172785, 1050161208, 1050793807, 1051228830, 1052432574, 1052623824, 1053120204, 1053253467, 1053273978, 1053663468, 1054787360, 1055199647, 1055695502, 1056049080, 1056628652, 1058779296, 1058941390, 1060859225, 1061763729, 1062269934, 1063014416, 1063194840, 1063440928, 1064123557, 1064322012, 1065369479, 1065790180, 1067098416, 1069453500}; int target = 77213518; cout << sumLessThanTarget(nums, target);</pre>			

Passed all tests! ✓

Chính xác

Điểm cho bài nộp này: 1,00/1,00.

Câu hỏi**9**

Chính xác

Điểm 1,00 của
1,00

Given an array of integers `nums` and a two-dimension array of integers `operations`.

Each operation in `operations` is represented in the form `{L, R, X}`. When applying an operation, all elements with index in range `[L, R]` (include L and R) increase by `X`.

Your task is to implement a function with following prototype:

```
vector<int> updateArrayPerRange(vector<int>& nums, vector<vector<int>>& operations);
```

The function returns the array after applying all operation in `operations`.

Note:

- The `iostream`, and `vector` libraries have been included and namespace `std` is being used. No other libraries are allowed.
- You can write helper functions.

For example:

Test	Result
<pre>vector<int> nums {13, 0, 6, 9, 14, 16}; vector<vector<int>> operations {{5, 5, 16}, {3, 4, 0}, {0, 2, 8}}; printVector(updateArrayPerRange(nums, operations));</pre>	[21, 8, 14, 9, 14, 32]

Answer: (penalty regime: 0, 0, 0, 0, 0, 100 %)

```

1  vector<int> updateArrayPerRange(vector<int>& nums, vector<vector<int>>& operations)
2      // STUDENT ANSWER
3      for (int i = 0; i < operations.size(); i++){
4          int left = operations[i][0];
5          int right = operations[i][1];
6          int scale = operations[i][2];
7          for (int k = left; k <= right; k++){
8              nums[k] += scale;
9          }
10     }
11     return nums;
12 }
```

	Test	Expected	Got	
✓	<pre>vector<int> nums {13, 0, 6, 9, 14, 16}; vector<vector<int>> operations {{5, 5, 16}, {3, 4, 0}, {0, 2, 8}}; printVector(updateArrayPerRange(nums, operations));</pre>	[21, 8, 14, 9, 14, 32]	[21, 8, 14, 9, 14, 32]	✓
✓	<pre>vector<int> nums {19, 4, 3, 2, 16, 3, 17, 8, 18, 12}; vector<vector<int>> operations {{0, 3, 4}, {2, 5, 12}, {3, 6, 6}, {5, 8, 5}, {8, 9, 8}, {0, 5, 9}, {1, 7, 8}, {1, 1, 3}, {5, 5, 18}}; printVector(updateArrayPerRange(nums, operations));</pre>	[32, 28, 36, 41, 51, 61, 36, 21, 31, 20]	[32, 28, 36, 41, 51, 61, 36, 21, 31, 20]	✓
✓	<pre>vector<int> nums {4, 1, 3, 8, 9, 17, 8, 14, 10, 3, 3, 5, 4, 10, 13, 13, 12, 14, 12, 10}; vector<vector<int>> operations {{10, 12, 7}, {0, 5, 18}}; printVector(updateArrayPerRange(nums, operations));</pre>	[22, 19, 21, 26, 27, 35, 8, 14, 10, 3, 10, 12, 11, 10, 13, 13, 12, 14, 12, 10]	[22, 19, 21, 26, 27, 35, 8, 14, 10, 3, 10, 12, 11, 10, 13, 13, 12, 14, 12, 10]	✓

	Test	Expected	Got	
✓	<pre>vector<int> nums {11, 7, 19, 14, 14, 13, 10, 6, 2, 17, 1, 18, 14, 17, 3, 13, 15, 5, 7, 4, 14, 5, 15, 5, 13, 11, 11, 3, 10, 0, 15, 8, 8, 16, 7, 15, 18, 11, 2, 7, 1, 19, 1, 15, 2, 0, 5, 0, 9, 15, 15, 8, 16, 3, 3, 8, 11, 19, 0, 13, 15, 19, 19, 6, 13, 9, 9, 16, 8, 7, 9, 6, 19, 4, 1, 19, 12, 7, 4, 3, 7, 6, 14, 17, 15, 14, 19, 10, 18, 18, 9, 5, 16, 15, 15, 0, 6, 11, 18, 7}; vector<vector<int>> operations {{24, 55, 19}, {23, 62, 9}, {39, 44, 12}, {45, 74, 1}, {67, 69, 7}, {23, 47, 14}, {33, 59, 4}, {33, 47, 7}, {85, 90, 10}, {10, 82, 5}, {63, 94, 19}, {27, 33, 14}, {82, 85, 5}, {2, 64, 7}, {53, 55, 13}, {50, 71, 19}, {9, 90, 6}, {8, 54, 0}, {33, 84, 16}, {44, 73, 11}, {9, 62, 16}, {34, 56, 6}, {20, 65, 10}, {18, 71, 2}, {27, 98, 16}, {32, 90, 11}, {67, 93, 18}, {18, 69, 14}, {27, 71, 18}, {22, 66, 18}, {67, 78, 12}, {18, 66, 10}, {42, 98, 15}, {10, 73, 4}, {27, 36, 16}, {39, 94, 1}, {43, 54, 1}, {47, 96, 15}, {13, 27, 0}, {33, 63, 17}, {76, 95, 4}, {25, 95, 19}, {45, 72, 6}}; printVector(updateArrayPerRange(nums, operations));</pre>	[11, 7, 26, 21, 21, 20, 17, 13, 9, 46, 39, 56, 52, 55, 41, 51, 53, 43, 71, 68, 88, 79, 107, 120, 147, 164, 164, 220, 227, 217, 232, 225, 236, 288, 271, 279, 282, 259, 250, 268, 262, 280, 277, 292, 290, 283, 288, 298, 286, 292, 311, 304, 312, 312, 312, 316, 287, 289, 270, 283, 281, 285, 285, 266, 256, 245, 235, 251, 243, 242, 223, 220, 194, 173, 155, 172, 169, 164, 161, 148, 152, 151, 164, 162, 160, 153, 153, 144, 152, 152, 143, 112, 123, 122, 104, 69, 52, 42, 49, 7]	[11, 7, 26, 21, 21, 20, 17, 13, 9, 46, 39, 56, 52, 55, 41, 51, 53, 43, 71, 68, 88, 79, 107, 120, 147, 164, 164, 220, 227, 217, 232, 225, 236, 288, 271, 279, 282, 259, 250, 268, 262, 280, 277, 292, 290, 283, 288, 298, 286, 292, 311, 304, 312, 312, 312, 316, 283, 281, 285, 285, 266, 256, 245, 235, 251, 243, 242, 223, 220, 194, 173, 155, 172, 169, 164, 161, 148, 152, 151, 164, 162, 160, 153, 153, 144, 152, 152, 143, 112, 123, 122, 104, 69, 52, 42, 49, 7]	✓

Test	Expected	Got
11, 16, 17, 7, 14, 8, 12, 9, 6, 15, 9, 13, 6}; vector<vector<int>> operations {{66, 339, 11}, {12, 223, 15}, {4, 469, 4}, {40, 125, 8}, {88, 187, 9}, {43, 82, 12}, {212, 435, 5}, {188, 329, 19}, {41, 263, 10}, {153, 224, 19}, {132, 135, 3}, {77, 142, 5}, {68, 198, 2}, {1, 113, 4}, {64, 274, 16}, {148, 286, 6}, {168, 470, 5}, {441, 491, 2}, {117, 187, 8}, {88, 446, 13}, {218, 488, 14}, {52, 315, 1}, {279, 330, 13}, {193, 353, 12}, {220, 276, 1}, {147, 483, 11}, {74, 133, 0}, {62, 114, 1}, {34, 348, 7}, {228, 449, 8}, {103, 165, 9}, {176, 186, 8}, {358, 458, 12}, {4, 230, 13}, {14, 232, 11}, {249, 319, 18}, {44, 343, 4}, {281, 370, 12}, {335, 366, 14}, {101, 419, 18}, {228, 298, 17}, {83, 320, 5}, {341, 457, 17}, {366, 476, 6}, {82, 124, 19}, {362, 379, 15}, {90, 348, 10}, {341, 402, 5}, {55, 432, 17}, {327, 487, 3}, {78, 312, 8}, {119, 290, 19}, {69, 380, 8}, {310, 426, 16}, {100, 209, 11}, {70, 343, 12}, {162, 164, 6}, {253, 382, 19}, {396, 433, 15}, {108, 247, 13}, {32, 479, 5}, {249, 273, 6}, {292, 419, 11}, {0, 10, 0}, {434, 454, 12}, {143, 239, 2}, {109, 460, 10}, {48, 390, 18}, {209, 329, 10}, {117, 262, 13}, {359, 475, 4}, {61, 111, 18}, {355, 367, 5}, {414, 475, 4}, {365, 434, 13}, {78, 84, 15}, {274, 358, 9}, {122, 436, 2}, {108, 390, 2}, {5, 175, 7}, {159, 214, 9}, {171, 420, 9}, {54, 181, 13}, {156, 436, 6}, {106, 242, 1}, {3, 28, 6}, {211, 445, 2}, {343, 433, 18}, {398, 475, 5}, {101, 245, 11}, {238, 348, 16}, {158, 159, 8}, {29, 178, 1}, {69, 187, 11}, {329, 406, 3}, {21, 366, 2}, {380, 421, 9}, {68, 254, 1}, {57, 101, 12}, {59, 305, 15}, {110, 202, 19}, {57, 308, 8}, {251, 496, 2}, {106, 192, 6}, {22, 94, 16}, {170, 417, 15}, {134,	1535, 1549, 1600, 1548, 1565, 1568, 1558, 1566, 1595, 1606, 1615, 1627, 1648, 1655, 1664, 1655, 1645, 1640, 1637, 1649, 1646, 1652, 1647, 1667, 1712, 1741, 1737, 1748, 1760, 1786, 1798, 1802, 1792, 1794, 1782, 1782, 1795, 1810, 1822, 1829, 1807, 1796, 1806, 1814, 1819, 1824, 1829, 1824, 1838, 1854, 1848, 1843, 1822, 1824, 1812, 1838, 1839, 1826, 1815, 1818, 1832, 1859, 1854, 1868, 1870, 1875, 1872, 1885, 1880, 1879, 1907, 1907, 1879, 1875, 1879, 1873, 1868, 1861, 1854, 1846, 1844, 1798, 1833, 1811, 1825, 1833, 1837, 1828, 1824, 1805, 1816, 1793, 1801, 1799, 1781, 1773, 1779, 1793, 1807, 1806, 1833, 1832, 1809, 1821, 1828, 1830, 1811, 1833,	1372, 1356, 1362, 1358, 1351, 1356, 1390, 1422, 1433, 1431, 1438, 1441, 1436, 1478, 1496, 1535, 1549, 1600, 1548, 1565, 1558, 1606, 1615, 1647, 1652, 1647, 1667, 1712, 1741, 1737, 1748, 1760, 1786, 1798, 1802, 1792, 1794, 1782, 1782, 1795, 1810, 1822, 1829, 1807, 1796, 1806, 1814, 1819, 1824, 1829, 1824, 1838, 1854, 1848, 1843, 1822, 1824, 1812, 1838, 1839, 1826, 1815, 1818, 1832, 1859, 1854, 1868, 1870, 1875, 1872, 1885, 1880, 1879, 1907, 1907, 1879, 1875, 1879, 1873, 1868, 1861, 1854, 1846, 1844, 1798, 1833, 1811, 1825, 1833, 1837, 1828, 1824, 1805, 1816, 1793, 1801, 1799, 1781, 1773, 1779, 1793, 1807, 1806, 1833, 1832, 1809, 1821, 1828, 1830, 1811, 1833,

Test	Expected	Got
148, 10}, {72, 295, 0}, {9, 200, 0}, {306, 347, 0}, {4, 165, 1}, {16, 184, 3}, {107, 385, 17}, {78, 127, 6}, {121, 336, 13}, {308, 446, 8}, {195, 262, 5}, {7, 250, 0}, {113, 329, 13}, {291, 471, 0}, {70, 275, 1}, {46, 422, 15}, {50, 341, 6}, {413, 445, 0}, {362, 439, 1}, {132, 177, 15}, {370, 481, 18}, {38, 143, 11}, {54, 140, 18}, {89, 360, 14}, {286, 359, 19}, {108, 325, 7}, {24, 409, 4}, {179, 204, 12}, {67, 489, 4}, {382, 482, 8}, {184, 325, 16}, {72, 287, 10}, {98, 345, 2}, {64, 111, 16}, {17, 384, 0}, {261, 499, 5}, {130, 158, 14}, {288, 463, 3}, {171, 366, 5}, {75, 93, 2}, {93, 376, 13}, {409, 484, 3}, {7, 91, 16}, {286, 363, 12}, {63, 314, 17}, {143, 189, 6}, {47, 79, 0}, {165, 386, 16}, {286, 438, 10}, {254, 324, 4}, {66, 361, 6}, {68, 148, 11}, {91, 395, 0}, {30, 376, 2}, {411, 475, 7}, {233, 465, 1}, {188, 230, 7}, {30, 188, 16}, {158, 463, 11}, {145, 433, 6}, {370, 459, 3}, {157, 364, 6}, {135, 323, 11}, {58, 415, 6}, {51, 416, 6}, {243, 316, 17}, {117, 355, 9}, {28, 224, 1}, {246, 470, 6}, {146, 235, 9}, {0, 374, 13}, {206, 464, 15}, {150, 413, 0}, {289, 444, 16}, {233, 496, 10}, {80, 152, 17}, {38, 386, 10}, {23, 145, 2}, {322, 470, 17}, {399, 424, 13}, {53, 189, 15}, {5, 327, 7}, {98, 186, 1}, {29, 396, 14}, {36, 326, 8}, {348, 454, 13}, {8, 445, 0}, {30, 453, 19}, {46, 199, 9}, {170, 191, 15}, {8, 31, 14}, {369, 374, 8}, {73, 280, 15}, {18, 433, 17}, {164, 269, 8}, {43, 306, 6}, {2, 181, 5}, {6, 250, 5}, {376, 414, 15}, {421, 425, 5}, {475, 484, 9}, {66, 225, 14}, {153, 179, 1}, {256, 257, 7}, {344, 479, 19}, {88, 402, 19}, {214, 398, 7}, {256, 344, 7}, {276, 383, 14}, {39, 142, 2}, {288, 307, 8}, {29, 90, 2}, {455, 494, 15}, {89, 180, 10}, {85, 286, 5},	1802, 1828, 1811, 1819, 1820, 1822, 1822, 1802, 1773, 1784, 1778, 1804, 1814, 1821, 1800, 1791, 1792, 1782, 1800, 1785, 1788, 1803, 1796, 1790, 1791, 1788, 1818, 1816, 1811, 1792, 1803, 1795, 1813, 1815, 1815, 1822, 1852, 1843, 1871, 1893, 1888, 1875, 1854, 1870, 1811, 1825, 1817, 1830, 1831, 1827, 1844, 1851, 1833, 1842, 1840, 1812, 1815, 1811, 1818, 1822, 1838, 1836, 1823, 1816, 1803, 1807, 1806, 1842, 1840, 1830, 1847, 1860, 1820, 1831, 1835, 1825, 1860, 1872, 1862, 1852, 1839, 1843, 1855, 1847, 1841, 1824, 1810, 1812, 1800, 1814, 1783, 1817, 1802, 1814, 1806, 1812, 1779, 1781, 1773, 1779, 1793, 1807, 1806, 1833, 1809, 1832, 1809, 1821, 1828, 1830, 1811, 1833, 1802, 1828, 1811, 1819, 1820, 1822, 1822, 1802, 1773, 1784, 1778, 1804, 1814, 1821, 1800, 1791, 1792, 1782, 1800, 1785, 1788,	1826, 1815, 1818, 1832, 1859, 1854, 1868, 1870, 1875, 1872, 1885, 1880, 1879, 1907, 1907, 1879, 1875, 1879, 1873, 1868, 1861, 1854, 1846, 1844, 1798, 1833, 1811, 1825, 1833, 1837, 1793, 1801, 1799, 1781, 1773, 1779, 1793, 1807, 1806, 1833, 1821, 1828, 1830, 1821, 1811, 1833, 1802, 1828, 1811, 1819, 1820, 1822, 1802, 1773, 1784, 1778, 1804, 1814, 1821, 1800, 1791, 1792, 1782, 1800, 1785, 1788,

Test	Expected	Got
{80, 413, 9}, {6, 71, 15}, {3, 403, 14}, {206, 411, 9}, {29, 263, 15}, {40, 342, 5}, {28, 429, 16}, {143, 170, 7}, {64, 180, 0}, {133, 273, 19}, {255, 371, 1}, {306, 358, 11}, {134, 375, 18}, {269, 376, 16}, {394, 405, 9}, {111, 216, 18}, {60, 415, 4}, {152, 361, 6}, {18, 262, 13}, {195, 219, 5}, {133, 276, 9}, {94, 351, 1}, {114, 332, 16}, {216, 357, 19}, {464, 495, 3}, {111, 143, 16}, {301, 308, 7}, {101, 485, 17}, {286, 436, 3}, {144, 303, 14}, {77, 424, 9}, {79, 214, 9}, {1, 387, 14}, {14, 437, 13}, {111, 366, 2}, {255, 303, 19}, {13, 281, 17}, {55, 250, 6}, {35, 400, 6}, {170, 304, 0}, {69, 160, 18}, {279, 363, 4}, {100, 185, 13}, {118, 406, 4}, {391, 498, 15}, {294, 333, 6}, {138, 270, 17}, {209, 378, 14}, {261, 382, 11}, {94, 162, 10}, {11, 399, 0}, {137, 289, 17}, {322, 391, 2}, {42, 338, 8}, {174, 195, 6}, {67, 210, 14}, {469, 492, 4}, {193, 494, 6}, {62, 390, 17}, {74, 80, 8}, {142, 313, 17}, {0, 447, 1}, {15, 415, 16}, {191, 372, 11}, {55, 165, 11}, {46, 248, 17}, {82, 489, 9}, {36, 132, 0}, {109, 423, 6}, {66, 107, 9}, {251, 426, 19}, {152, 165, 0}, {61, 258, 16}, {94, 113, 9}, {44, 113, 7}, {263, 421, 11}, {153, 453, 8}, {47, 301, 8}, {264, 406, 5}, {76, 334, 11}, {138, 395, 4}, {139, 484, 4}, {19, 174, 5}, {295, 408, 18}, {6, 419, 8}, {279, 486, 8}, {272, 291, 7}, {176, 315, 12}, {290, 379, 18}, {116, 118, 5}, {65, 101, 0}, {102, 385, 13}, {314, 341, 19}, {53, 95, 12}, {222, 499, 3}, {109, 237, 10}, {24, 455, 16}, {96, 197, 19}, {207, 262, 19}, {268, 335, 5}, {238, 420, 9}, {176, 191, 5}, {145, 220, 13}, {35, 245, 10}, {269, 376, 12}, {262, 433, 7}, {133, 325, 13}, {188, 430, 12}, {226, 389, 17}, {345, 376, 17}, {379, 482, 16}, {143, 328,	1734, 1692, 1698, 1687, 1681, 1644, 1627, 1625, 1615, 1616, 1609, 1615, 1588, 1580, 1578, 1560, 1588, 1568, 1579, 1578, 1594, 1580, 1580, 1585, 1555, 1560, 1568, 1557, 1547, 1527, 1524, 1523, 1500, 1500, 1492, 1473, 1454, 1454, 1447, 1440, 1453, 1452, 1444, 1419, 1429, 1457, 1423, 1426, 1408, 1420, 1385, 1380, 1306, 1306, 1313, 1300, 1293, 1285, 1263, 1255, 1252, 1217, 1186, 1172, 1169, 1141, 1120, 1133, 1111, 1130, 1121, 1127, 1120, 1114, 1132, 1136, 1116, 1132, 1098, 1058, 1054, 1060, 1041, 1038, 1016, 1021, 1021, 1009, 1018, 1024, 1012, 984, 979, 946, 927, 890, 879, 858, 861, 839, 819, 819, 775, 773, 767, 759, 757, 749,	1803, 1796, 1790, 1791, 1788, 1818, 1816, 1811, 1792, 1803, 1795, 1813, 1815, 1815, 1822, 1852, 1843, 1871, 1893, 1888, 1875, 1854, 1870, 1871, 1884, 1837, 1817, 1817, 1830, 1831, 1827, 1844, 1851, 1833, 1842, 1840, 1812, 1815, 1811, 1818, 1822, 1838, 1836, 1823, 1816, 1803, 1807, 1806, 1842, 1840, 1830, 1847, 1860, 1820, 1831, 1835, 1825, 1860, 1872, 1862, 1852, 1839, 1843, 1855, 1847, 1841, 1824, 1810, 1812, 1800, 1814, 1783,

Test	Expected	Got
<pre> 1}, {191, 282, 9}, {121, 309, 17}, {72, 408, 9}, {4, 484, 18}, {85, 336, 6}, {277, 411, 10}, {365, 453, 9}, {295, 454, 17}, {41, 374, 10}, {377, 471, 8}, {85, 455, 0}, {176, 434, 4}, {51, 417, 18}, {25, 410, 6}, {56, 313, 1}, {98, 428, 1}, {128, 436, 16}, {95, 100, 0}, {28, 290, 15}, {119, 236, 3}, {8, 33, 6}, {32, 187, 15}, {172, 267, 5}, {140, 189, 16}, {52, 403, 1}, {460, 463, 2}, {109, 402, 12}, {30, 370, 19}, {43, 205, 7}, {218, 386, 10}, {86, 467, 0}, {109, 442, 5}, {191, 476, 18}, {310, 403, 12}, {154, 458, 8}, {46, 280, 6}, {312, 410, 1}, {9, 216, 14}, {82, 141, 13}, {18, 435, 2}, {136, 183, 7}, {189, 481, 16}, {147, 474, 0}, {60, 125, 1}, {247, 435, 8}, {38, 142, 12}, {94, 392, 15}, {120, 426, 6}, {301, 451, 15}, {248, 346, 8}, {19, 132, 7}, {208, 276, 4}, {253, 367, 6}, {487, 490, 6}, {178, 189, 15}, {220, 353, 13}, {247, 352, 8}, {226, 397, 1}, {28, 297, 8}, {68, 376, 12}, {23, 31, 17}, {413, 466, 19}, {410, 437, 15}, {107, 356, 17}, {91, 374, 1}, {310, 416, 6}, {434, 483, 18}, {205, 321, 3}, {32, 459, 11}, {272, 328, 3}, {402, 455, 3}, {79, 301, 5}}; printVector(updateArrayPerRange(nums, operations)); </pre>	736, 697, 688, 670, 631, 618, 365, 453, 9}, {295, 454, 17}, {41, 374, 10}, {377, 471, 8}, {85, 455, 0}, {176, 434, 4}, {51, 417, 18}, {25, 410, 6}, {56, 313, 1}, {98, 428, 1}, {128, 436, 16}, {95, 100, 0}, {28, 290, 15}, {119, 236, 3}, {8, 33, 6}, {32, 187, 15}, {172, 267, 5}, {140, 189, 16}, {52, 403, 1}, {460, 463, 2}, {109, 402, 12}, {30, 370, 19}, {43, 205, 7}, {218, 386, 10}, {86, 467, 0}, {109, 442, 5}, {191, 476, 18}, {310, 403, 12}, {154, 458, 8}, {46, 280, 6}, {312, 410, 1}, {9, 216, 14}, {82, 141, 13}, {18, 435, 2}, {136, 183, 7}, {189, 481, 16}, {147, 474, 0}, {60, 125, 1}, {247, 435, 8}, {38, 142, 12}, {94, 392, 15}, {120, 426, 6}, {301, 451, 15}, {248, 346, 8}, {19, 132, 7}, {208, 276, 4}, {253, 367, 6}, {487, 490, 6}, {178, 189, 15}, {220, 353, 13}, {247, 352, 8}, {226, 397, 1}, {28, 297, 8}, {68, 376, 12}, {23, 31, 17}, {413, 466, 19}, {410, 437, 15}, {107, 356, 17}, {91, 374, 1}, {310, 416, 6}, {434, 483, 18}, {205, 321, 3}, {32, 459, 11}, {272, 328, 3}, {402, 455, 3}, {79, 301, 5}}; printVector(updateArrayPerRange(nums, operations));	1817, 1802, 1814, 1806, 1812, 1779, 1781, 1764, 1748, 1766, 1730, 1724, 1747, 1747, 1729, 1734, 1692, 1698, 1687, 1681, 1644, 1627, 1625, 1615, 1616, 1609, 1615, 1588, 1580, 1578, 1560, 1588, 1568, 1579, 1578, 1594, 1580, 1580, 1585, 1555, 1560, 1568, 1557, 1547, 1527, 1524, 1523, 1500, 1500, 1492, 1473, 1454, 1454, 1447, 1440, 1453, 1452, 1444, 1419, 1429, 1457, 1423, 1426, 1408, 1420, 1385, 1380, 1306, 1306, 1313, 1300, 1293,

Test	Expected	Got
		1285, 1263, 1255, 1252, 1217, 1186, 1172, 1169, 1141, 1120, 1133, 1111, 1130, 1121, 1127, 1120, 1114, 1132, 1136, 1116, 1132, 1098, 1058, 1054, 1060, 1041, 1038, 1016, 1021, 1021, 1009, 1018, 1024, 1012, 984, 979, 946, 927, 890, 879, 858, 861, 839, 819, 819, 775, 773, 767, 759, 757, 749, 736, 697, 688, 670, 631, 618, 610, 599, 601, 594, 599, 596, 586, 586, 557, 562, 557, 558, 542, 539, 525, 497, 468, 462, 448, 442, 422, 398, 389, 386, 399, 380, 367, 357, 336, 344, 344, 338, 316, 305,

Test	Expected	Got
		316, 302, 312, 306, 269, 283, 272, 244, 246, 207, 189, 159, 138, 106, 112, 114, 101, 78, 79, 71, 71, 68, 44, 50, 32, 36, 14]

Test	Expected	Got
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Test	Expected	Got
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Test	Expected	Got
967, 8}, {445, 976, 2}, {55, 567, 12}, {34, 482, 18}, {532, 858, 14}, {651, 757, 18}, {628, 734, 8}, {758, 769, 19}, {9, 623, 9}, {500, 611, 1}, {114, 228, 14}, {477, 503, 5}, {515, 615, 1}, {18, 188, 3}, {66, 811, 4}, {534, 792, 1}, {579, 615, 8}, {193, 358, 5}, {527, 908, 0}, {937, 967, 19}, {5, 128, 12}, {344, 417, 11}, {177, 817, 13}, {328, 418, 13}, {121, 180, 14}, {196, 319, 6}, {289, 592, 10}, {671, 888, 5}, {614, 742, 5}, {201, 940, 18}, {300, 497, 15}, {379, 689, 1}, {268, 485, 6}, {484, 638, 19}, {508, 992, 2}, {739, 868, 3}, {4, 860, 14}, {16, 103, 7}, {321, 523, 5}, {22, 318, 10}, {49, 276, 1}, {104, 981, 8}, {665, 975, 19}, {267, 567, 6}, {235, 352, 5}, {639, 833, 11}, {93, 282, 0}, {259, 450, 7}, {31, 606, 15}, {620, 680, 4}, {549, 965, 8}, {123, 812, 10}, {141, 722, 12}, {108, 616, 11}, {680, 942, 12}, {75, 653, 11}, {609, 713, 11}, {540, 950, 2}, {51, 506, 4}, {135, 669, 19}, {387, 420, 16}, {366, 696, 8}, {465, 697, 12}, {356, 858, 8}, {140, 204, 13}, {593, 978, 2}, {80, 694, 10}, {126, 319, 9}, {257, 604, 1}, {201, 953, 0}, {30, 510, 11}, {237, 259, 5}, {725, 984, 5}, {410, 954, 6}, {363, 743, 0}, {502, 617, 18}, {108, 742, 10}, {185, 570, 0}, {347, 728, 11}, {430, 457, 19}, {868, 934, 10}, {327, 780, 4}, {78, 527, 14}, {212, 982, 13}, {829, 861, 19}, {224, 685, 10}, {642, 926, 12}, {156, 753, 1}, {25, 962, 10}, {101, 933, 5}, {495, 851, 2}, {534, 578, 7}, {25, 263, 14}, {448, 881, 11}, {645, 774, 4}, {375, 500, 5}, {443, 675, 15}, {5, 250, 1}, {392, 990, 8}, {244, 547, 16}, {641, 914, 3}, {70, 526, 4}, {661, 663, 14}, {350, 436, 11}, {133, 701, 10}, {465, 792, 12}, {161, 789, 17}, {769, 910, 16}, {246, 529, 17}, {604, 780, 19}, {3921, 3931, 3952}, {3732, 3739},	3754, 3760, 3770, 3784, 3778, 3760, 3805, 3803, 3802, 3836, 3826, 3810, 3815, 3785, 3795, 3802, 3815, 3805, 3837, 3820, 3836, 3847, 3820, 3837, 3838, 3860, 3870, 3848, 3827, 3833, 3863, 3857, 3855, 3865, 3846, 3850, 3855, 3879, 3877, 3913, 3930, 3947, 3929, 3927, 3917, 3897, 3884, 3883, 3874, 3886, 3901, 3890, 3897, 3886, 3890, 3901, 3918, 3895, 3881, 3867, 3856, 3860, 3894, 3923, 3911, 3919, 3941, 3923, 3911, 3898, 3925, 3961, 3993, 3996, 3963, 3983, 3976, 3991, 3994, 3997, 3994, 4002, 4009, 4015, 4011, 4007, 4047, 4049, 4051, 4043, 4058, 4031, 4018, 3974, 3964, 3962, 3940, 3945, 3952, 3960, 3945, 3935, 3945, 3934, 3925, 3921, 3931, 3952,	3138, 3145, 3149, 3178, 3204, 3228, 3225, 3236, 3243, 3233, 3217, 3224, 3257, 3267, 3255, 3257, 3258, 3256, 3284, 3326, 3323, 3335, 3333, 3361, 3366, 3397, 3384, 3384, 3406, 3418, 3413, 3448, 3440, 3433, 3460, 3480, 3462, 3456, 3469, 3482, 3471, 3482, 3497, 3508, 3529, 3529, 3557, 3558, 3554, 3557, 3591, 3591, 3594, 3587, 3593, 3601, 3613, 3629, 3638, 3635, 3634, 3650, 3642, 3660, 3666, 3692, 3695, 3692, 3726, 3732, 3732, 3739,

Test	Expected	Got
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Test	Expected	Got
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Test	Expected	Got
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Test	Expected	Got
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Test	Expected	Got
	1650, 1654, 1655, 1613, 1599, 1591, 1567, 1556, 1566, 1556, 1515, 1497, 1510, 1472, 1481, 1471, 1468, 1431, 1431, 1427, 1413, 1422, 1381, 1385, 1356, 1371, 1342, 1345, 1334, 1330, 1328, 1306, 1299, 1279, 1251, 1255, 1252, 1240, 1232, 1248, 1231, 1226, 1214, 1214, 1187, 1177, 1178, 1167, 1147, 1144, 1133, 1121, 1129, 1111, 1106, 1106, 1073, 1095, 1041, 1038, 1015, 1000, 1009, 994, 1000, 1000, 1000, 1008, 1005, 994, 999, 1001, 958, 954, 942, 921, 909, 898, 877, 880, 850, 858, 825, 829, 814, 798, 779, 752, 759, 750, 731, 723, 734, 726, 734, 737, 725, 724, 674, 647, 640, 624, 510, 507, 507, 494, 503, 509,	3840, 3836, 3860, 3833, 3830, 3830, 3833, 3842, 3811, 3807, 3801, 3780, 3760, 3763, 3738, 3741, 3744, 3733, 3729, 3716, 3711, 3725, 3730, 3730, 3717, 3722, 3720, 3680, 3684, 3668, 3665, 3663, 3630, 3616, 3612, 3607, 3626, 3624, 3608, 3584, 3602, 3598, 3618, 3598, 3596, 3597, 3576, 3566, 3565, 3566, 3577, 3564, 3566, 3584, 3554, 3552, 3536, 3540, 3540, 3571, 3562, 3547, 3516, 3531, 3528, 3556, 3553, 3537, 3523, 3524, 3516, 3504,

Test	Expected	Got
	507, 493, 469, 430, 405, 405, 389, 397, 373, 343, 326, 289, 281, 266, 230, 209, 201, 179, 163, 147, 137, 120, 97, 63, 71, 46]	3478, 3487, 3478, 3489, 3515, 3529, 3492, 3494, 3492, 3516, 3473, 3484, 3446, 3445, 3428, 3427, 3418, 3425, 3416, 3390, 3399, 3387, 3376, 3381, 3388, 3362, 3347, 3373, 3371, 3353, 3342, 3348, 3311, 3299, 3267, 3268, 3245, 3237, 3207, 3196, 3175, 3175, 3196, 3200, 3189, 3193, 3177, 3142, 3155, 3135, 3110, 3085, 3082, 3075, 3067, 3078, 3055, 3040, 3045, 3047, 3052, 3025, 3028, 3006, 2981, 2972, 2965, 2954, 2961, 2964, 2947, 2931,

Test	Expected	Got
		2935, 2918, 2913, 2900, 2904, 2899, 2898, 2839, 2809, 2790, 2778, 2785, 2753, 2740, 2721, 2722, 2727, 2711, 2719, 2734, 2725, 2716, 2730, 2725, 2719, 2711, 2678, 2690, 2669, 2659, 2673, 2666, 2660, 2677, 2664, 2663, 2642, 2621, 2628, 2607, 2612, 2616, 2610, 2615, 2629, 2595, 2606, 2585, 2567, 2564, 2548, 2570, 2552, 2546, 2511, 2523, 2511, 2499, 2487, 2456, 2418, 2395, 2375, 2373, 2372, 2374, 2384, 2392, 2387, 2382, 2370, 2376,

Test	Expected	Got
		2363, 2343, 2339, 2304, 2259, 2242, 2225, 2223, 2203, 2194, 2173, 2188, 2187, 2173, 2195, 2198, 2222, 2219, 2202, 2181, 2169, 2189, 2178, 2159, 2157, 2111, 2104, 2091, 2097, 2104, 2069, 2083, 2042, 2050, 2053, 2070, 2035, 2036, 2053, 2033, 2012, 1989, 1965, 1935, 1941, 1912, 1913, 1880, 1864, 1862, 1823, 1774, 1738, 1703, 1699, 1699, 1653, 1663, 1650, 1654, 1655, 1613, 1599, 1591, 1567, 1556, 1566, 1556, 1515, 1497, 1510, 1472,

Test	Expected	Got
		1481, 1471, 1468, 1431, 1431, 1427, 1413, 1422, 1381, 1385, 1356, 1371, 1342, 1345, 1334, 1330, 1328, 1306, 1299, 1279, 1251, 1255, 1252, 1240, 1232, 1248, 1231, 1226, 1214, 1214, 1187, 1177, 1178, 1167, 1147, 1144, 1133, 1121, 1129, 1111, 1106, 1106, 1073, 1095, 1041, 1038, 1015, 1000, 1009, 994, 1000, 1000, 1000, 1008, 1005, 994, 999, 1001, 958, 954, 942, 921, 909, 898, 877, 880, 850, 858, 825, 829, 814, 798, 779, 752, 759, 750, 731, 723, 734, 726, 734,

Test	Expected	Got
		737, 725, 724, 674, 647, 640, 624, 510, 507, 507, 494, 503, 509, 507, 493, 469, 430, 405, 405, 389, 397, 373, 343, 326, 289, 281, 266, 230, 209, 201, 179, 163, 147, 137, 120, 97, 63, 71, 46]

Passed all tests! ✓

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