Status	Finished
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Marks	8.00/8.00
Grade	10.00 out of 10.00 (100%)

```
Question 1
Correct
Mark 1.00 out of 1.00
```

Implement all methods in class **Stack** with template type **T**. The description of each method is written as comment in frame code.

```
#ifndef STACK_H
#define STACK_H
#include "DLinkedList.h"
template<class T>
class Stack {
protected:
    DLinkedList<T> list;
public:
    Stack() {}
   void push(T item);
   T pop();
   T top();
   bool empty();
   int size();
    void clear();
};
#endif
```

You can use all methods in class **DLinkedList** without implementing them again. The description of class **DLinkedList** is written as comment in frame code.

```
template <class T>
class DLinkedList
{
public:
    class Node; //forward declaration
protected:
   Node* head;
    Node* tail;
    int count;
public:
   DLinkedList();
   ~DLinkedList();
   void add(const T& e);
   void add(int index, const T& e);
    T removeAt(int index);
    bool removeItem(const T& removeItem);
    bool empty();
    int size();
   void clear();
    T get(int index);
    void set(int index, const T& e);
    int indexOf(const T& item);
    bool contains(const T& item);
};
```

For example:

Answer: (penalty regime: 0 %)

```
1 void push(T item) {
        // TODO: Push new element into the top of the stack
 2
 3
        list.add(0,item);
 4
        //cout<<list.get(0);</pre>
 5
    }
 6
 7 ▼ T pop() {
        // TODO: Remove an element on top of the stack
8
 9
        T ret=list.get(0);
10
        list.removeAt(∅);
11
        return ret;
12
13
14 ▼ T top() {
15
        // TODO: Get value of the element on top of the stack
16
        //cout<<list.get(0);</pre>
17
        return list.get(0);
18
19
20 v bool empty() {
        // TODO: Determine if the stack is empty
21
22
        return list.empty();
23
24
25 v int size() {
        // TODO: Get the size of the stack
26
27
        return list.size();
28
29
30 void clear() {
        // TODO: Clear all elements of the stack
31
        list.clear();
32
33 }
```

	Test	Expected	Got	
~	<pre>Stack<int> stack; cout << stack.empty() << " " << stack.size();</int></pre>	1 0	1 0	~
~	Stack <int> stack;</int>	8	8	~
	<pre>int item[] = { 3, 1, 4, 5, 2, 8, 10, 12 }; for (int idx = 0; idx < 8; idx++) stack.push(item[idx]);</pre>			
	assert(stack.top() == 12);			
	<pre>stack.pop(); stack.pop();</pre>			
	<pre>cout << stack.top();</pre>			

Correct

```
Question 2
Correct
Mark 1.00 out of 1.00
```

You are keeping score for a basketball game with some new rules. The game consists of several rounds, where the scores of past rounds may affect future rounds' scores.

At the beginning of the game, you start with an empty record. You are given a list of strings **ops**, where **ops[i]** is the operation you must apply to the record, with the following rules:

- A non-negative integer **x** (from 0 to 9) record a new score of **x**
- '+' Record a new score that is the sum of the previous two scores. It is guaranteed there will always be two previous scores.
- 'D' Record a new score that is double the previous score. It is guaranteed there will always be a previous score.
- 'C' Invalidate the previous score, removing it from the record. It is guaranteed there will always be a previous score.

Finally, return the sum of all scores in the record.

For example:

ops = "52CD+"

- '5' add to the record. Record now is [5]
- '2' add to the record. Record now is [5,2]
- 'C' invalid the previous score (2). Record now is [5]
- 'D' Record new score that is double of previous score (5*2). Record now is [5,10]
- '+' Record a new score that is the sum of the previous two scores. Record now is [5,10,15]

Return the sum: 5+10+15 = 30

For example:

Test	Result
<pre>cout << baseballScore("52CD+");</pre>	30
<pre>cout << baseballScore("524CD9++");</pre>	55

Answer: (penalty regime: 0 %)

```
1 ▼ int baseballScore(string ops){
 2
     /*TODO*/
 3
         vector<int> v;
 4
         int size=ops.size();
 5 •
         for(int i=0;i<size;i++){</pre>
 6
             //cout<<ops[i]<<endl;</pre>
 7
             if('0'<=ops[i]&&ops[i]<='9'){</pre>
 8
                  v.push_back(ops[i]-48);
 9
                  //cout<<ops[i]<<endl;</pre>
10
             }
11 .
             else if(ops[i]=='C'){
12
                  v.pop_back();
13
14
             else if(ops[i]=='D'){
15
                  int temp=v.back();
16
                  //cout<<v.back()<<endl;</pre>
17
                  v.push_back(temp*2);
18
19
             else if(ops[i]=='+'){
20
                  int temp=v.back();
21
                  vector<int>::iterator temp_back=v.end();
22
                  temp_back--;
23
                  temp_back--;
                  int temp2=*temp_back;
```

```
25
                 v.push_back(temp+temp2);
26
27
             //cout<<v[0]<<endl;</pre>
28
29
         int sum=0;
         for(unsigned int i=0;i<v.size();i++){</pre>
30 🔻
             sum+= v[i];
31
32
33
         return sum;
34 }
```

	Test	Expected	Got	
~	<pre>cout << baseballScore("52CD+");</pre>	30	30	~
~	<pre>cout << baseballScore("524CD9++");</pre>	55	55	~
~	<pre>cout << baseballScore("5C4C2C11+D3");</pre>	11	11	~

Correct

```
Question 3
Correct
Mark 1.00 out of 1.00
```

Given an array of positive integers nums. An array mt represents a mountain having no valleys and taking nums as its upperbound. In the other word, for all index i in range, $mt[i] \le nums[i]$ and no pair of indices (j, k) that j < i < k and mt[j] > mt[i] && mt[i] < mt[k] exists.

Your task is to implement a function with following prototype:

int mountainWithoutValley(vector<int>& nums);

The function returns the maximum sum of numbers of mt.

Note:

- The iostream, vector, climits and stack 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 {10, 6, 8, 8}; cout << mountainWithoutValley(nums);</int></pre>	28

Answer: (penalty regime: 0 %)

```
1 | int mountainWithoutValley(vector<int>& nums) {
         // STUDENT ANSWER
 2
 3
         vector<pair<int,int>> up;
 4
         vector<pair<int,int>> down;
 5
         int max=INT_MIN;
 6
         up.push_back({nums[0],0});
 7
         //down.push_back({nums[0],0});
 8
         int size=nums.size();
 9
         int sum1=nums[0];
10
         for(int i=1;i<size;i++){</pre>
11
             pair<int,int> temp_up_back=up.back();
12 •
             if(nums[i]>=temp_up_back.first){
13
                 up.push_back({nums[i],i});
14
                 sum1+=nums[i];
15
             }
16
             else {
17
                 int sum2;
                 if(nums[i]*(size-i-1)+sum1<=max){</pre>
18
19
                      goto skip;
20
                 }
                 down.push_back({nums[i],i});
21
22
                 sum2=nums[i];
23 -
                 for(int j=i+1;j<size;j++){</pre>
                      pair<int,int> temp_down_back=down.back();
24
25
                      if(nums[j]<=temp_down_back.first){</pre>
                          if(sum1+sum2+nums[j]*(size-j-1)<max) {down.clear();goto skip;}</pre>
26
27
                          down.push_back({nums[j],j});
28
                          sum2+=nums[j];
29
                      }
                     else{
30
31
                          //temp_down_back.second++;
32
                          down[down.size()-1].second++;
33
                          sum2+=down[down.size()-1].first;
34
35
                 }
36
                 if(sum1+sum2>max){
```

```
37
                     max=sum1+sum2;
38
                 }
39
                 down.clear();
40
                 skip:
41
                 while(nums[i]<temp_up_back.first){</pre>
                     if(up.size()==1){sum1-=up[0].first*(up[0].second+1);}
42
43 -
                     else {
44
                         int up_size=up.size();
45
                         sum1 -= up[up_size-1].first*(up[up_size-1].second-up[up_size-2].second);
46
47
                     //sum1-=temp_up_back.first;
48
49
                     up.pop_back();
50
                     if(up.size()==0){
51
                         break;
                     }
52
```

	Test	Expected	Got	
~	<pre>vector<int> nums {10, 6, 8, 8}; cout << mountainWithoutValley(nums);</int></pre>	28	28	~
~	<pre>vector<int> nums {163}; cout << mountainWithoutValley(nums);</int></pre>	163	163	~

Correct

```
Question 4
Correct
Mark 1.00 out of 1.00
```

Given an array nums[] of size N having distinct elements, the task is to find the next greater element for each element of the array

Next greater element of an element in the array is the nearest element on the right which is greater than the current element.

If there does not exist a next greater of a element, the next greater element for it is -1

Note: iostream, stack and vector are already included

```
Constraints:

1 <= nums.length <= 10^5

0 <= nums[i] <= 10^9

Example 1:
Input:
nums = {15, 2, 4, 10}

Output:
{-1, 4, 10, -1}

Example 2:
Input:
nums = {1, 4, 6, 9, 6}

Output:
{4, 6, 9, -1, -1}
```

For example:

Test	Input	Result
int N;	4	-1 4 10 -1
cin >> N;	15 2 4 10	
<pre>vector<int> nums(N);</int></pre>		
for(int i = 0; i < N; i++) cin >> nums[i];		
<pre>vector<int> greaterNums = nextGreater(nums);</int></pre>		
<pre>for(int i : greaterNums)</pre>		
cout << i << ' ';		
cout << '\n';		
int N;	5	4 6 9 -1 -1
cin >> N;	1 4 6 9 6	
<pre>vector<int> nums(N);</int></pre>		
for(int i = 0; i < N; i++) cin >> nums[i];		
<pre>vector<int> greaterNums = nextGreater(nums);</int></pre>		
<pre>for(int i : greaterNums)</pre>		
cout << i << ' ';		
cout << '\n';		

Answer: (penalty regime: 0 %)

```
s.push({arr[0],0});
 8 ,
         for(int i=1;i<n;i++){</pre>
 9
             pair<int,int> temp=s.top();
10
             if(temp.first<arr[i]){</pre>
11 .
                 while(temp.first<arr[i]){</pre>
                      ret[temp.second]=arr[i];
12
13
                      s.pop();
14
                      if(s.size()==0){
15
                          goto stop;
16
17
                      temp=s.top();
18
                 }
19
                 stop:
20
                 s.push({arr[i],i});
21
             }
22
             else {
23
                  s.push({arr[i],i});
24
             }
25
26
         int stackn=s.size();
         for(int i=0;i<stackn;i++){</pre>
27
28
             pair<int,int> temp=s.top();
29
             ret[temp.second]=-1;
30
             s.pop();
31
         }
32
         return ret;
33
```

	Test	Input	Expected	Got	
~	int N;	4	-1 4 10 -1	-1 4 10 -1	~
	cin >> N;	15 2 4 10			
	<pre>vector<int> nums(N);</int></pre>				
	for(int i = 0; i < N; i++) cin >> nums[i];				
	<pre>vector<int> greaterNums = nextGreater(nums);</int></pre>				
	<pre>for(int i : greaterNums)</pre>				
	cout << i << ' ';				
	cout << '\n';				
~	int N;	5	4 6 9 -1 -1	4 6 9 -1 -1	~
	cin >> N;	1 4 6 9 6			
	<pre>vector<int> nums(N);</int></pre>				
	for(int i = 0; i < N; i++) cin >> nums[i];				
	<pre>vector<int> greaterNums = nextGreater(nums);</int></pre>				
	for(int i : greaterNums)				
	cout << i << ' ';				
	cout << '\n';				

Correct

```
Question 5
Correct
Mark 1.00 out of 1.00
```

Given a string consisting of 'a'-'z' and brackets '(' and ')'.

Your task is to implement a function with following prototype:

```
string parenthesesReversal(string s);
```

The function returns the string after recursively reversing every string enclosed between brackets.

Note:

- The iostream, vector and stack 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>string s = "vi(ik)kq"; cout << parenthesesReversal(s);</pre>	vikikq

Answer: (penalty regime: 0 %)

```
stack<int> stac;
    void rev(string& s, int start, int end);
    string pararev(string &s, int i);
 3
4 ▼ string parenthesesReversal(string s) {
        // STUDENT ANSWER
 5
 6
        return pararev(s, 0);
7
    //void rev(string &s,int start,int end);
8
9 v string pararev(string &s, int i) {
10
        //cout << i << endl;
11
        //cout << s[i] << endl;
12
        //cout << stac.size()<<endl;</pre>
        if (s[i] == '\0') {
13
14
            return s;
15
16
        if (s[i] == '(') {
17
            //cout << "not ok" << endl;</pre>
18
            stac.push(i);
19
            s.erase(i, 1);
20
            return pararev(s, i);
21
22 .
        else if (s[i] == ')') {
23
            rev(s, stac.top(), i - 1);
24
            s.erase(i, 1);
25
            stac.pop();
26
            return pararev(s, i);
27
28
        return pararev(s, i + 1);
29
30 void rev(string& s, int start, int end) {
        for (int i = start, j = end; i < j; i++, j--) {</pre>
31 •
32
            char temp = s[i];
33
            s[i] = s[j];
34
            s[j] = temp;
35
36
37
```

	Test	Expected	Got	
~	<pre>string s = "vi(ik)kq"; cout << parenthesesReversal(s);</pre>	vikikq	vikikq	~



```
Question 6
Correct
Mark 1.00 out of 1.00
```

Given a string S of characters, a duplicate removal consists of choosing two adjacent and equal letters, and removing them.

We repeatedly make duplicate removals on **S** until we no longer can.

Return the final string after all such duplicate removals have been made.

Included libraries: vector, list, stack

For example:

Test	Result
<pre>cout << removeDuplicates("abbaca");</pre>	ca
<pre>cout << removeDuplicates("aab");</pre>	b

Answer: (penalty regime: 0 %)

```
1 v string removeDuplicates(string S){
 2
         /*TODO*/
 3
         stack<char> stac;
 4
         stac.push(S[0]);
 5 ,
         for(unsigned int i=1;i<S.size();i++){</pre>
 6
             if(stac.top()==S[i]){
 7 .
                 while(stac.top()==S[i]){
 8
                      S.erase(i-1,2);
 9
10
                      //cout<<S[i]<<endl;</pre>
11
                      //cout<<stac.top()<<endl;</pre>
12
                      stac.pop();
13
                      if(stac.size()==0){
14
                          break;
15
16
                  }
17
                 stac.push(S[i]);
18
             }
19
             else {
20
                  stac.push(S[i]);
21
22
         }
23
         return S;
24
```

	Test	Expected	Got	
~	<pre>cout << removeDuplicates("abbaca");</pre>	ca	ca	~
	<pre>cout << removeDuplicates("aab");</pre>	ь	ь	~

Correct

```
Question 7
Correct
Mark 1.00 out of 1.00
```

Given an array of integers.

Your task is to implement a function with following prototype:

int sumOfMinSubarray(vector<int>& nums);

The function returns the sum of the minimum value of every subarray of nums. The sum may be too large, so the result should mod 10000.

Note:

- The iostream, vector and stack 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, 4, 3}; cout << sumOfMinSubarray(nums);</int></pre>	20

Answer: (penalty regime: 0 %)

```
1 v int sumOfMinSubarray(vector<int>& a) {
2
        // STUDENT ANSWER
3
        int mod = 10000;
4
        stack<int>st;
 5
        int n = a.size();
 6
        int dp[n];
7
        for (int i =0; i<n; i++)</pre>
8
9
            while (!st.empty()&&a[st.top()]>=a[i])
10
            {
11
                 st.pop();
12
            if (!st.empty())
13
14
15
                 int pre = st.top();
16
                 dp[i] = dp[pre]+(i-pre)*a[i];
17
            }
18
            else {
19
                     // or it doesn't exist, in this case the current element
20
                     // contributes with all subarrays ending at i
                 dp[i] = (i + 1) * a[i];
21
22
            }
23
                 // push the current index
24
            st.push(i);
25
        }
26
        int res = 0;
27
        for (int i =0; i<n; i++)</pre>
28
        {
29
            res+=dp[i];
30
            res%=mod;
31
32
        return res;
33
```

	Test	Expected	Got	
~	<pre>vector<int> nums {1, 2, 4, 3}; cout << sumOfMinSubarray(nums);</int></pre>	20	20	~
~	<pre>vector<int> nums {}; cout << sumOfMinSubarray(nums);</int></pre>	0	0	~
~	<pre>vector<int> nums {9830, 5335, 3573, 9754, 1778, 2960, 4386, 6461, 2524, 4734, 4263, 2571, 4628, 1981, 19, 4444, 5446, 3117, 102, 6044}; cout << sumOfMinSubarray(nums);</int></pre>	8583	8583	~
~	vector <int> nums {4921, 3462, 7784, 7764, 4246, 1659, 3629, 1594, 7885, 2625, 2038, 3252, 597, 7346, 4043, 1762, 2867, 8365, 7464, 461, 4238, 3441, 5814, 4218, 9008, 6826, 1084, 1956, 7199, 7882, 4550, 3241, 780, 2476, 7972, 7699, 203, 8101, 9334, 2539, 789, 2652, 1462, 6745, 619, 3147, 9558, 3230, 7339, 5126, 2589, 7669, 2584, 540, 4380, 8695, 9893, 3164, 2949, 159, 2082, 6138, 1582, 8605, 2682, 6193, 6802, 4079, 2492, 4091, 9689, 4733, 9881, 7519, 7658, 8803, 8925, 6603, 3950, 7012, 1426, 9346, 8566, 477, 6433, 8231, 2175, 9241, 1914, 9755, 4133, 1683, 2535, 3220, 7222, 9488, 1227, 3150, 697, 5822}; cout << sumOfMinSubarray(nums);</int>	4631	4631	~
~	vector <int> nums {2544, 5222, 2719, 600, 5010, 8197, 3144, 8364, 4134, 3449, 2665, 3262, 9024, 922, 6669, 8798, 5315, 1660, 7497, 4695, 3977, 2544, 84, 4538, 1653, 6336, 8039, 1611, 7447, 1835, 3010, 2761, 7985, 3421, 8687, 5396, 1368, 9443, 1834, 3578, 8285, 9598, 1697, 499, 1068, 8006, 7865, 6222, 1108, 3376, 9185, 9499, 3720, 9571, 1483, 1482, 2118, 1799, 3912, 6292, 3878, 2831, 9555, 5017, 7717, 6329, 2241, 9977, 4579, 4276, 1044, 9047, 233, 5601, 2045, 4539, 7231, 5309, 1746, 8327, 3581, 7806, 3856, 924, 3056, 1595, 401, 8957, 7264, 4401, 8034, 2148, 7328, 2211, 2006, 3620, 4069, 690, 5806, 8032, 9002, 6734, 5720, 8586, 2259, 9419, 6326, 2334, 5921, 3032, 3137, 7135, 9318, 6780, 9741, 9074, 4329, 1473, 3070, 5386, 12, 8037, 4139, 628, 572, 4303, 35, 8820, 1721, 655, 6813, 6079, 6039, 7417, 1684, 5227, 691, 884, 2163, 5363, 4282, 5166, 1021, 8352, 1095, 6776, 4544, 4117, 4155, 9244, 955, 8409, 8402, 8476, 9277, 4314, 5123, 7226, 1936, 80, 7704, 7785, 7079, 3471, 288, 9646, 2387, 5682, 2513, 7235, 492, 9012, 3729, 3959, 8542, 5200, 2967, 1657, 354, 125, 3422, 7045, 4143, 2114, 5594, 4430, 8272, 5856, 3997, 2892, 4007, 6079, 6940, 8279, 658, 7929, 7854, 3301, 1918, 1415, 2597, 8657, 1097, 424, 6112, 2685, 4077, 4585, 7951, 2729, 4265, 162, 6217, 2500, 5186, 2573, 9867, 2017, 7562, 5196, 8946, 1470, 8399, 1947, 9467, 2978, 4566, 1700, 6344, 9285, 5756, 338, 2630, 8901, 6003, 3416, 3085, 1174, 4624, 9858, 3112, 377, 6688, 1196, 5365, 1488, 6332, 4002, 7390, 928, 5829, 3416, 5994, 1384, 2497, 2027, 2142, 129, 71522, 5399, 9336, 3991, 7381, 6811, 7725, 7432, 8849, 3562, 2273, 1978, 2418, 6355, 6167, 3473, 1340, 259, 730, 9217, 1222, 905, 3916, 4865, 601, 4426, 1596, 7617, 5076, 2647, 781, 8157, 4739, 5244, 4676, 371, 6129, 4410, 7042, 5585, 8284, 4807, 7268, 1442, 5544, 8628, 4423, 4459, 8023, 9983, 8144, 6384, 423, 4234, 315, 5665, 9948, 2204, 2017, 642, 4608, 3815, 2480, 4590, 520, 282, 6182, 2399, 3801, 5997, 3165, 2105, 6267, 6695, 3166, 5238, 92, 2141, 3071, 8716, 8776, 3064, 9046, 4709, 6968, 5853, 8115, 60</int>	4396	4396	~

https://lms.hcmut.edu.vn/mod/quiz/review.php?attempt=4598756&cmid=439939

Test	Expected	Got		
vector <int> nums {7268, 9416, 2343, 2597, 282, 544, 1112, 563, 732, 4645, 4381, 1228, 6 1441, 2006, 6651, 1170, 2206, 5685, 7998, 8888, 3642, 9678, 7641, 8278, 9710, 1163, 156 3696, 203, 4531, 3795, 8735, 6454, 7532, 8396, 2438, 5094, 4926, 7966, 4901, 3643, 4970 1224, 4365, 5473, 7147, 8200, 5525, 854, 8620, 2829, 4364, 6360, 1834, 5935, 2640, 5074 2268, 1613, 9022, 9401, 2144, 2327, 1083, 8130, 1431, 190, 2995, 3590, 7300, 9112, 2961 2216, 769, 9769, 2638, 1606, 3859, 7582, 8124, 1679, 5358, 5243, 2885, 5957, 2540, 3176 7456, 578, 762, 7767, 1221, 6895, 4916, 953, 7072, 1587, 5266, 8034, 1675, 1673, 578, 6 5335, 4517, 8137, 4277, 5915, 5736, 8180, 2101, 9713, 5106, 2820, 2671, 348, 1240, 2489</int>	4, , , , , , , ,	8084	~	
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Test	Expected	Got	
6671, 4400, 851, 1588, 1061, 268, 1076, 5985, 2240, 4140, 2605, 2625, 5597, 7198, 2222,			
5461, 1224, 4329, 9718, 6469, 7063, 6302, 4593, 9799, 9883, 6187, 5139, 3999, 8898, 3043,			
3849, 3897, 6335, 923, 1486, 3557, 1166, 8565, 9755, 2979, 130, 8082, 6611, 5039, 9522,			
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1003, 9752, 5653, 3509, 3645, 5662, 8738, 6990, 6501, 7596, 8977, 8708, 9592, 3721, 6524,			
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330, 7104, 7936, 6296, 3773, 9160, 5623, 2664, 189, 1475, 1293, 9087, 2312, 9229, 3073,			
7203, 5263, 9504, 2415, 4763, 3516, 5293, 426, 1379};			
<pre>cout << sumOfMinSubarray(nums);</pre>			

Correct

```
Question 8

Correct

Mark 1.00 out of 1.00
```

Given an array of integers.

Your task is to implement a function with following prototype:

bool tripleIndexSLM(vector<int>& nums);

The function returns whether a triplet of indices (i, j, k) such that i < j < k and nums[i] < nums[k] < nums[j] exists.

Note:

- The iostream, vector and stack 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, 10, 0, 3, 3}; cout << tripleIndexSLM(nums);</int></pre>	1

Answer: (penalty regime: 0 %)

```
1 v bool tripleIndexSLM(vector<int>& nums) {
 2
         // STUDENT ANSWER
 3 ,
         if(nums.size()<=2){</pre>
 4
             return 0;
 5
         }
 6
         vector<int> v;
 7
         v.resize(2);
 8
         deque<int> de;
 9 ,
         if(nums[0]<=nums[1]){</pre>
10
             v[0]=nums[0];
             v[1]=nums[1];
11
12
         }
13
         else{
14
             v[0]=nums[1];
15
             v[1]=nums[0];
16
17
         for(unsigned int i=2;i<nums.size();i++){</pre>
             if(v[0]<nums[i]&&nums[i]<v[1]){</pre>
18 •
19
                  return true;
20
             if(nums[i]<=v[0]){</pre>
21
22
                  de.push_front(nums[i]);
23
             else if(v[1]<=nums[i]){</pre>
24
25
                  de.push_back(nums[i]);
26
             if(de.size()==2){
27
28
                  v[0]=de[0];
29
                  v[1]=de[1];
30
                  de.clear();
31
             }
32
33
         return false;
34
```

	Test	Expected	Got	
~	<pre>vector<int> nums {1, 10, 0, 3, 3}; cout << tripleIndexSLM(nums);</int></pre>	1	1	~
~	<pre>vector<int> nums {}; cout << tripleIndexSLM(nums);</int></pre>	0	0	~
~	vector <int> nums {15815, 15258, 10488, 9802, 5861, 3992, 2481, 1331, 550, 539, -1392, -3572, -5180, -7837, -10398, -10764, -12797, -13580, -13724, -14400}; cout << tripleIndexSLM(nums);</int>	0	0	~
~	vector <int> nums {15953, 15605, 15178, 14780, 14719, 14581, 14512, 14312, 13802, 13337, 13250, 13205, 13178, 12643, 12027, 11679, 11497, 10766, 10686, 10486, 10480, 10036, 9483, 9319, 9304, 8981, 8882, 8684, 8681, 8651, 8541, 8392, 8241, 8241, 8145, 7686, 7686, 7447, 7222, 7200, 6754, 6284, 5692, 4977, 4146, 3992, 3704, 3439, 3254, 2699, 1674, 1513, 1087, 631, 317, -826, -922, -1265, -1716, -1826, -1881, -2192, -2488, -2810, -2824, -2867, -3331, -4502, -4596, -5116, -5379, -6051, -6545, -6639, -6831, -7048, -7501, -7537, -8500, -8879, -9077, -9402, -9694, -9964, -10295, -11299, -12285, -12522, -12635, -12818, -13497, -13784, -14059, -14276, -14352, -14566, -15181, -15374, -15628, -15858}; cout << tripleIndexSLM(nums);</int>	0	0	~
~	vector <int> nums (16166, 16125, 16094, 16061, 16054, 15970, 15932, 15918, 15883, 15701, 15685, 15631, 15579, 15559, 15548, 15513, 15512, 15400, 15322, 15307, 15927, 14973, 14843, 14698, 14671, 14653, 14579, 14546, 14325, 14289, 14099, 14051, 13949, 13938, 13903, 13594, 13593, 13580, 13528, 13423, 13174, 13088, 13010, 13007, 12994, 12961, 12961, 12935, 12878, 12846, 12768, 12724, 12722, 12660, 12659, 12578, 12498, 12494, 12434, 12411, 12296, 12108, 11844, 11840, 11836, 11815, 11801, 11725, 11654, 11465, 11436, 11390, 11253, 11236, 11169, 11148, 11103, 11088, 110556, 11001, 10013, 10867, 10764, 10745, 10739, 10633, 10606, 10586, 10556, 10504, 10485, 10445, 10439, 10410, 10281, 10254, 10219, 10126, 10098, 9973, 9921, 9827, 9268, 9257, 9227, 9122, 9058, 9041, 9021, 8989, 8871, 8796, 8717, 8553, 8532, 8529, 8484, 8475, 8386, 8343, 8256, 8255, 8235, 8214, 8210, 8150, 8075, 7938, 7775, 7767, 7658, 7637, 7512, 7412, 7397, 7326, 7234, 7167, 7155, 7152, 7106, 7101, 7067, 6917, 6898, 6865, 6748, 6586, 6400, 6203, 6132, 6093, 5952, 5951, 5806, 5854, 5852, 5804, 5788, 5724, 5096, 5646, 5579, 5387, 5346, 5335, 5301, 5124, 5079, 5037, 4860, 4789, 4696, 4645, 4634, 4633, 4532, 4510, 4483, 4339, 4338, 4290, 4265, 4203, 3064, 3829, 3795, 3768, 3657, 3634, 3629, 3773, 3576, 3557, 3301, 3275, 3171, 3016, 2999, 2940, 2847, 2782, 2613, 2452, 2326, 2285, 2276, 2168, 2006, 1997, 1956, 1955, 1943, 1906, 1719, 1665, 1612, 1566, 1376, 1306, 1171, 1061, 1039, 978, 883, 889, 852, 819, 804, 803, 576, 566, 407, 242, 233, 229, 197, 192, 112, 37, -4, -96, -97, -110, -114, -137, -141, -216, -290, -311, -332, -378, -432, -690, -691, -746, -766, -820, -848, -853, -893, -915, -1029, -1129, -1131, -1509, -1602, -1647, -1689, -170, -1742, -1807, -1847, -1853, -1911, -1977, -2017, -2028, -2078, -2171, -2186, -2204, -2227, -2284, -2374, -2474, -2493, -2599, -2641, -2768, -2823, -2895, -2970, -3033, -3035, -1318, -3303, -3311, -3314, -3499, -4994, -5667, -5101, -5305, -3734, -3749, -3779, -3822, -4994, -4661, -6771, -6739, -6624, -6671, -6753, -6817, -</int>	0	0	~

	Test	Expected	Got	
,	vector <int> nums {16376, 16371, 16370, 16370, 16322, 16320, 16316, 16314, 16307, 16285,</int>	0	0	~
	16277, 16271, 16270, 16269, 16268, 16256, 16238, 16230, 16224, 16217, 16198, 16196, 16186,			
	16184, 16182, 16182, 16173, 16171, 16164, 16134, 16132, 16118, 16091, 16078, 16074, 16049,			
	16038, 16022, 16011, 16010, 16008, 16000, 15998, 15994, 15989, 15987, 15982, 15968, 15967,			
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Test	Expected	Got
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 vector vector intervention int	1	1	~
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Test	Expected	Got
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