

Project Explorer

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test1.cpp H34086149_hw11_1.cpp H34086149_hw11_2.cpp H34086149_hw11_challenge.cpp

```
1 //=====
2 // Name      : H34086149_hw11_1.cpp
3 // Author    : mr.NTD
4 // Version   :
5 // Copyright : Your copyright notice
6 // Description: Hello World in C++, Ansi-style
7 //=====
8
9
10 #include <iostream>
11 #include <vector>
12 #include <algorithm>
13 using namespace std;
14
15 int main() {
16     int number;
17     vector<int> arr;
18     cout << "Please input 20 numbers\n";
19     for(int i = 0; i < 20; i++)
20     {
21         cin >> number;
22         if(find(arr.begin(),arr.end(),number) == arr.end())
23             arr.push_back(number);
24     }
25     for(auto i:arr)
26         cout << i << ' ';
27     cout << '\n';
28     return 0;
29 }
30
```

Problems Tasks Properties Console

<terminated> (exit value: 0) H34086149_hw11_1.exe [C/C++ Application] C:\Users\user\eclipse-workspace\H34086149_hw11_1\Debug\H34086149_hw11_1.exe (2019/12/3 下午9:25)

Please input 20 numbers

6 8 7 4 2 9 6 3 7 1
9 5 8 7 3 6 5 8 4 2
6 8 7 4 2 9 3 1 5

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 - H34086149_hw4_3
 - H34086149_hw4_a(c)

```
1 //=====
2 // Name      : H34086149_hw11_2.cpp
3 // Author    : mr.NTD
4 // Version   :
5 // Copyright  : Your copyright notice
6 // Description: Hello World in C++, Ansi-style
7 //=====
8
9 #include <iostream>
10 #include <string.h>
11 #include <ctime>
12 using namespace std;
13
14 inline int simulation()
15 {
16     return rand() % 6 + rand() % 6 + 2;
17 }
18
19 int main()
20 {
21     srand((unsigned int) time(NULL));
22     int ctr[13];
23     memset(ctr, 0, sizeof(ctr));
24     for(int i = 0; i < 3.6e4; i++)
25         ctr[simulation()] ++;
26     cout << "Sum:\t";
27     for(int i = 2; i <= 12; i++)
28         cout << i << '\t';
29     cout << "\nTimes:\t";
30     for(int i = 2; i <= 12; i++)
31         cout << ctr[i] << '\t';
32     return 0;
33 }
```

<terminated> (exit value: 0) H34086149_hw11_2.exe [C/C++ Application] C:\Users\user\eclipse-workspace\H34086149_hw11_2\Debug\H34086149_hw11_2.exe (2019/12/3 下午9:31)

Sum:	2	3	4	5	6	7	8	9	10	11	12
Times:	968	2071	2943	3964	4898	5907	5131	4032	3086	1998	1002

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test1.cpp H34086149_hw11_1.cpp H34086149_hw11_2.cpp H34086149_hw11_challenge.cpp

```
9 #include<bits/stdc++.h>
10 using namespace std;
11
12 int search(vector<int> &arr) // O(logN)
13 {
14     int L = 0, R = arr.size() - 1, m;
15     while(true)
16     {
17         if(R - L <= 1)
18             return arr[L] > arr[R] ? arr[L] : arr[R];
19         m = L + (R - L) / 2;
20         if(arr[m-1] < arr[m])
21         {
22             if(arr[m] > arr[m+1])
23                 return arr[m];
24             else
25                 L = m + 1;
26         }
27         else
28             R = m - 1;
29     }
30 }
31 int main()
32 {
33     int x;
34     vector<int>arr;
35     cout << "Please input the array\n";
36     while(cin >> x)//ending by EOF
37         arr.push_back(x);
38     cout << search(arr) << '\n';
39     return 0;
40 }
```

Problems Tasks Properties Console

```
<terminated> (exit value: 0) H34086149_hw11_challenge.exe [C/C++ Application] C:\Users\user\eclipse-workspace\H34086149_hw11_challenge\Debug\H34086149_hw11_challenge.exe (2019/12/3 下午9:20)
Please input the array
8 10 20 80 100 200 400 500 3 2 1
500
```