

Project ... H34086149_hw4_challenge H34086149_hw5_1 H34086149_hw5_2 H34086149_hw5_challenge H34086149_hw5_challenge(method1) H34086149_hw5_challenge(method2)

test1.cpp H34086149_hw4_challenge.cpp H34086149_hw5_1.cpp H34086149_hw5_2.cpp H34086149_hw5_challenge(method1).cpp H34086149_hw5_challenge(method2).cpp

```
1 //=====
2 // Name      : H34086149_hw5_1.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 using namespace std;
11
12 double sum = 0.0;
13 bool positive = true;
14
15 int main() {
16     for(int i = 1; i < 2000; i+=2)
17     {
18         if(positive) sum += 4.0 / i;
19         else sum -= 4.0 / i;
20         positive = !positive;
21     }
22     cout << "PI = " << sum << '\n';
23     return 0;
24 }
25
```

<terminated> (exit value: 0) H34086149_hw5_1.exe [C/C++ Application] C:\Users\user\eclipse-workspace\H34086149_hw5_1\Debug\H34086149_hw5_1.exe (2019/10/22 下午7:41)

PI = 3.14059

Project ... H34086149_hw5_2.exe

test1.cpp H34086149_hw4_challenge.cpp H34086149_hw5_1.cpp H34086149_hw5_2.cpp H34086149_hw5_challenge(method1).cpp H34086149_hw5_challenge(method2).cpp

```
1 //=====
2 // Name      : H34086149_hw5_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 using namespace std;
11
12 int main() {
13     for(int i = 0; i < 5; i++)
14     {
15         for(int j = 0; j < 4 - i; j++) cout << ' ';
16         for(int j = 0; j < (i << 1) + 1; j++) cout << '*';
17         cout << '\n';
18     }
19     for(int i = 0; i < 4; i++)
20     {
21         for(int j = 0; j < i + 1; j++) cout << ' ';
22         for(int j = 0; j < 7 - (i << 1); j++) cout << '*';
23         cout << '\n';
24     }
25     return 0;
26 }
27
```

<terminated> (exit value: 0) H34086149_hw5_2.exe [C/C++ Application] C:\Users\user\eclipse-workspace\H34086149_hw5_2\Debug\H34086149_hw5_2.exe (2019/10/22 下午7:44)

```
*
***
*****
*****
*****
*****
***
*
```

Project ... H34086149_hw5_challenge

- H34086149_hw5_challenge
- Debug
- H34086149_hw5_1
- Binaries
- Includes
- src
- H34086149_hw5_1.cpp
- Debug
- H34086149_hw5_2
- Binaries
- Includes
- src
- H34086149_hw5_2.cpp
- Debug
- H34086149_hw5_challenge(method1)
- Binaries
- Includes
- src
- H34086149_hw5_challenge(method1).cpp
- Debug

test1.cpp H34086149_hw4_challenge.cpp H34086149_hw5_1.cpp H34086149_hw5_2.cpp H34086149_hw5_challenge(method1).cpp H34086149_hw5_challenge(method2).cpp

```
1 // =====
2 // Name      : H34086149_hw5(method1).cpp
3 // Author    : mr.NTD
4 // Version   : two pointer version
5 // Copyright : Your copyright notice
6 // Description : The code is accepted by leetcode #75 sort color
7 // =====
8
9 #include <bits/stdc++.h>
10 using namespace std;
11
12 int L = 0, R, i = 0, x;
13 vector<int>nums;
14
15 int main() {
16     //ios::sync_with_stdio(false);
17     //cin.tie(0);
18     while(cin >> x) nums.push_back(x);
19     R = nums.size() - 1;
20     while(i <= R)
21     {
22         if(!nums[i] && swap(nums[i++], nums[L++]));
23         else if(nums[i] == 2) swap(nums[i], nums[R--]);
24         else i++;
25     }
26     for(auto a : nums) cout << a << ' ';
27     cout << '\n';
28     return 0;
29 }
```

Problems Tasks Properties Console

<terminated> (exit value: 0) H34086149_hw5_challenge(method1).exe [C/C++ Application] C:\Users\user\eclipse-workspace\H34086149_hw5_challenge(method1)\Debug\H34086149_hw5_challenge(method1).exe (2019/10/22 下午7:45)

```
2 0 0 1 2 1
0 0 1 1 2 2
```

Project ... H34086149_hw5_challenge H34086149_hw4_challenge H34086149_hw5_1 H34086149_hw5_2 H34086149_hw5_challenge(method1).cpp H34086149_hw5_challenge(method2).cpp

test1.cpp H34086149_hw4_challenge.cpp H34086149_hw5_1.cpp H34086149_hw5_2.cpp H34086149_hw5_challenge(method1).cpp H34086149_hw5_challenge(method2).cpp

```
1 //=====
2 // Name      : H34086149_hw5_challenge(method2).cpp
3 // Author     : mr.NTD
4 // Version    : counting sort version
5 // Copyright  : Your copyright notice
6 // Description: without array
7 //=====
8
9 #include <bits/stdc++.h>
10 using namespace std;
11
12 int x;
13 int ctr0 = 0, ctr1 = 0, ctr2 = 0;
14
15 int main() {
16     //ios::sync_with_stdio(false);
17     //cin.tie(0);
18     while(cin >> x)
19     {
20         switch(x)
21         {
22             case 0:
23                 ctr0++;
24                 break;
25             case 1:
26                 ctr1++;
27                 break;
28             default:
29                 ctr2++;
30                 break;
31         }
32     }
33 }
```

Problems Tasks Properties Console

<terminated> (exit value: 0) H34086149_hw5_challenge(method2).exe [C/C++ Application] C:\Users\user\eclipse-workspace\H34086149_hw5_challenge(method2)\Debug\H34086149_hw5_challenge(method2).exe (2019/10/22 下午7:46)

```
2 0 0 1 2 1
0 0 1 1 2 2
```

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