```
// Please see README.txt
 2
     // We will go over the answers in class.
 3
     // Thank you.
 4
 5
     #include <iostream>
 6
     #include <typeinfo>
 7
     using namespace std;
 8
 9
     int x = 1, y = -1;
10
11
     void swapplus1(int n1, int n2) {
12
         int temp = n1 + 1;
13
         n1 = n2 - 1;
14
         n2 = temp;
15
         x = x + n1;
     }
16
17
18
     void swapplus2(int& n1, int& n2) {
19
         int temp = n1 + 1;
         n1 = n2 - 1;
20
21
         n2 = temp;
22
23
24
     void swapplus3(const int& n1, const int& n2) {
25
         int n1val, n2val, temp = n1 + 1;
26
         n1val = n2 - 1;
27
         n2val = temp;
28
         y -= n2;
29
     }
30
31
     void swapplus4(int* p1, int* p2) {
32
         int temp = *p1 + 1;
33
         *p1 = *p2 + 1;
34
         *p2 = temp;
35
         x = *p1 + y;
36
     }
37
38
     void swapplus5(int* &p1, int* &p2) {
39
         int* temp = p1 + 1;
40
         p1 = p2 - 1;
         p2 = temp;
41
42
     }
43
     void print(const int& x, const int& y) {
44
45
         cout << "\n x: " << x << " |y: " << y;
46
47
48
     int main() {
49
         int arr[]{ 2, 4, 6, 8, 10, 12, 14 };
50
         y = arr[3] / size(arr);
51
52
         swapplus1(x, y);
                              print(x, y);
53
         swapplus2(x, y);
                              print(x, y);
54
         swapplus3(x, y);
                              print(x, y);
55
         swapplus4(&x, &y); print(x, y);
56
         int *px = &x, *py = &y;
57
         (*px)--;
58
         (*py) -= -7;
59
         swapplus5(px, py); print(x, y);
60
         return 0;
61
     }
62
     /*
63
         x : 1 | y : 1
64
         x : 0 | y : 2
65
```