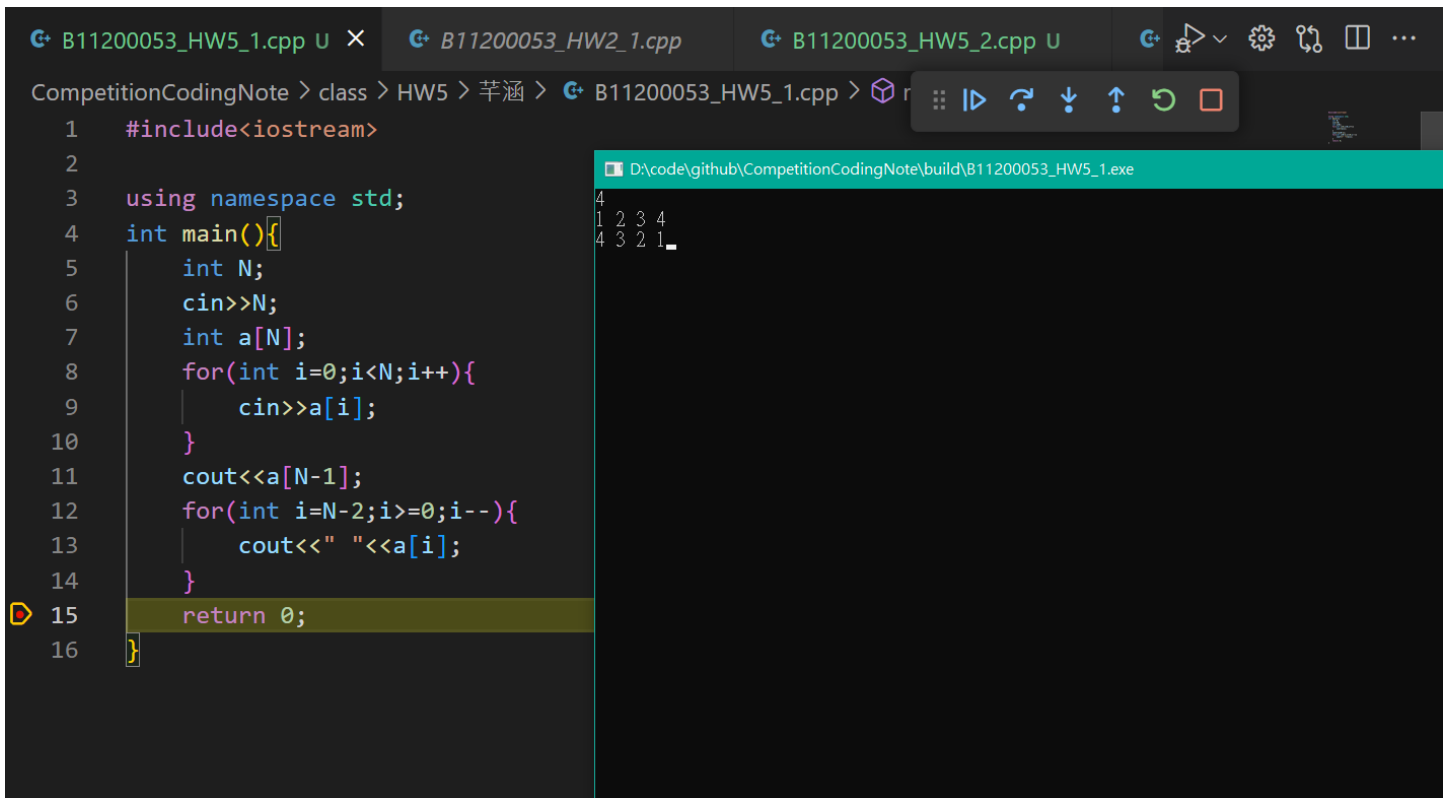


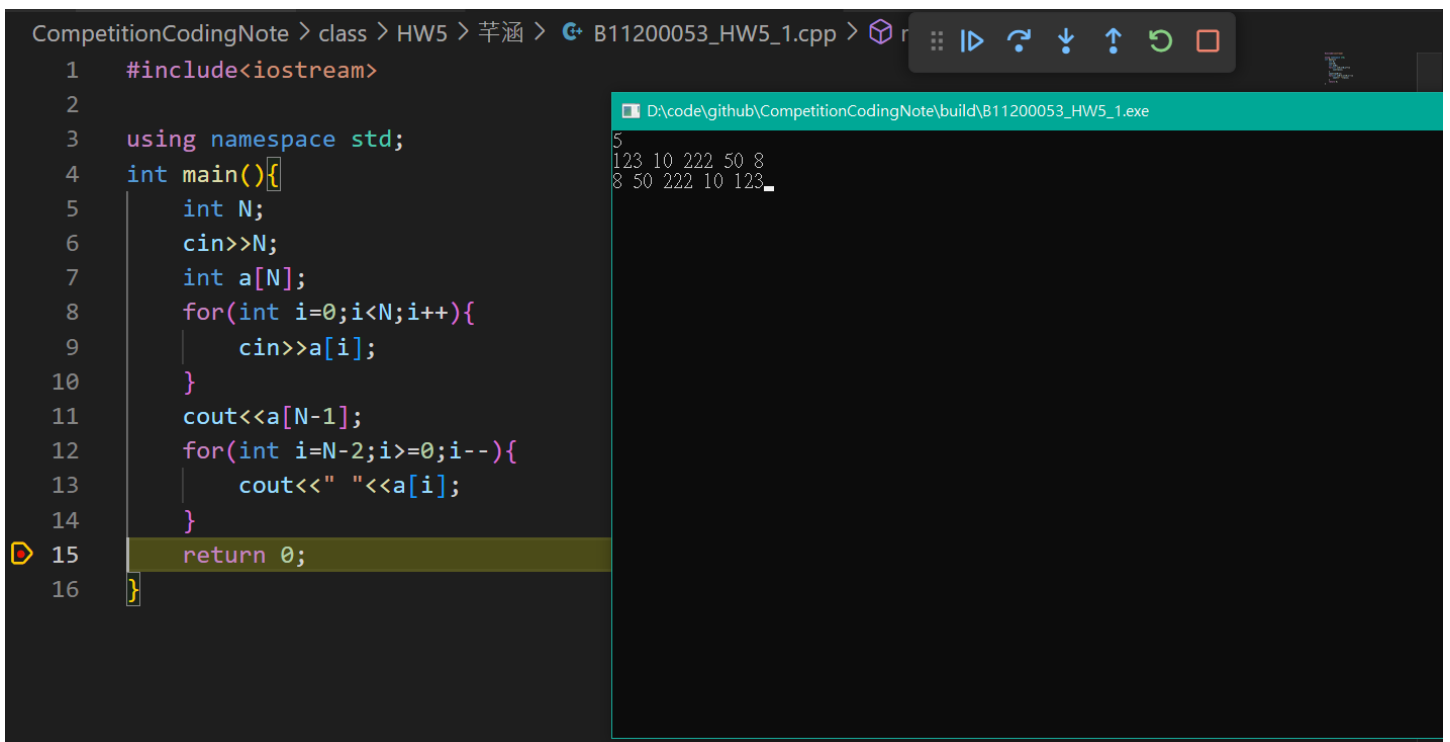
1.



The screenshot shows a C++ IDE with a file named `B11200053_HW5_1.cpp`. The code reads an integer `N`, then an array `a` of size `N`. It prints the last element `a[N-1]` and then iterates from `N-2` down to `0`, printing each element. The output window shows the execution results for the input `4` and array `1 2 3 4`, resulting in the output `4 3 2 1`.

```
1 #include<iostream>
2
3 using namespace std;
4 int main(){
5     int N;
6     cin>>N;
7     int a[N];
8     for(int i=0;i<N;i++){
9         cin>>a[i];
10    }
11    cout<<a[N-1];
12    for(int i=N-2;i>=0;i--){
13        cout<<" "<<a[i];
14    }
15    return 0;
16 }
```

Output: 4
1 2 3 4
4 3 2 1



The screenshot shows a C++ IDE with a file named `B11200053_HW5_1.cpp`. The code reads an integer `N`, then an array `a` of size `N`. It prints the last element `a[N-1]` and then iterates from `N-2` down to `0`, printing each element with a space separator. The output window shows the execution results for the input `5` and array `123 10 222 50 8`, resulting in the output `8 50 222 10 123`.

```
1 #include<iostream>
2
3 using namespace std;
4 int main(){
5     int N;
6     cin>>N;
7     int a[N];
8     for(int i=0;i<N;i++){
9         cin>>a[i];
10    }
11    cout<<a[N-1];
12    for(int i=N-2;i>=0;i--){
13        cout<<" "<<a[i];
14    }
15    return 0;
16 }
```

Output: 5
123 10 222 50 8
8 50 222 10 123

```
1 #include<iostream>
2
3 using namespace std;
4 int main(){
5     int N;
6     cin>>N;
7     int a[N];
8     for(int i=0;i<N;i++){
9         cin>>a[i];
10    }
11    cout<<a[N-1];
12    for(int i=N-2;i>=0;i--){
13        cout<<" "<<a[i];
14    }
15    return 0;
16 }
```

Output: 3
5 8 4
4 8 5

2.

```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     int N,tmp,n0=0,n1=0,n2=0;
5     cin>>N;
6     for(int i=0;i<N;i++){
7         cin>>tmp;
8         if(tmp%3==0){
9             n0+=1;
10        }
11        else if(tmp%3==1){
12            n1+=1;
13        }
14        else{
15            n2+=1;
16        }
17    }
18    cout<<n0<<" "<<n1<<" "<<n2;
19    return 0;
20 }
```

Output: 5
3 6 9 12 15
5 0 0

```
B11200053_HW5_1.cpp U B11200053_HW5_2.cpp U X B11200053_HW5_3.cpp U
CompetitionCodingNote > class > HW5 > 芋涵 > B11200053_HW5_2.cpp >
1 #include<iostream>
2 using namespace std;
3 int main(){
4     int N,tmp,n0=0,n1=0,n2=0;
5     cin>>N;
6     for(int i=0;i<N;i++){
7         cin>>tmp;
8         if(tmp%3==0){
9             n0+=1;
10        }
11        else if(tmp%3==1){
12            n1+=1;
13        }
14        else{
15            n2+=1;
16        }
17    }
18    cout<<n0<<" "<<n1<<" "<<n2;
19    return 0;
20 }
```

D:\code\github\CompetitionCodingNote\build\B11200053_HW5_2.exe

```
5
1 2 3 4 5
1 2 2
```

```
B11200053_HW5_1.cpp U B11200053_HW5_2.cpp U X B11200053_HW5_3.cpp U
CompetitionCodingNote > class > HW5 > 芋涵 > B11200053_HW5_2.cpp >
1 #include<iostream>
2 using namespace std;
3 int main(){
4     int N,tmp,n0=0,n1=0,n2=0;
5     cin>>N;
6     for(int i=0;i<N;i++){
7         cin>>tmp;
8         if(tmp%3==0){
9             n0+=1;
10        }
11        else if(tmp%3==1){
12            n1+=1;
13        }
14        else{
15            n2+=1;
16        }
17    }
18    cout<<n0<<" "<<n1<<" "<<n2;
19    return 0;
20 }
```

D:\code\github\CompetitionCodingNote\build\B11200053_HW5_2.exe

```
3
0 1 2
1 1 1
```

3.

```
CompetitionCodingNote > class > HW5 > 芋涵 > B11200053_HW5_3.cpp > r
1  #include<iostream>
2  using namespace std;
3  int main(){
4      int a;
5      cin>>a;
6      int b[a],c[a];
7      for(int i=0;i<a;i++){
8          cin>>b[i];
9      }
10     for(int i=0;i<a;i++){
11         cin>>c[i];
12     }
13     int count=0;
14     for(int i=0;i<a;i++){
15         if(b[i]==c[i]){
16             count+=1;
17         }
18     }
19     cout << count;
20     return 0;
```

D:\code\github\CompetitionCodingNote\build\B11200053_HW5_3.exe

```
4
1 2 3 4
2 2 3 4
3
```

```
CompetitionCodingNote > class > HW5 > 芋涵 > B11200053_HW5_3.cpp > r
1  #include<iostream>
2  using namespace std;
3  int main(){
4      int a;
5      cin>>a;
6      int b[a],c[a];
7      for(int i=0;i<a;i++){
8          cin>>b[i];
9      }
10     for(int i=0;i<a;i++){
11         cin>>c[i];
12     }
13     int count=0;
14     for(int i=0;i<a;i++){
15         if(b[i]==c[i]){
16             count+=1;
17         }
18     }
19     cout << count;
20     return 0;
```

D:\code\github\CompetitionCodingNote\build\B11200053_HW5_3.exe

```
5
100 220 3052 4444 8888
100 212 2222 0 -8
1
```

The screenshot shows a C++ IDE with two windows. The left window displays the source code for a program that counts the number of pairs (i, j) such that b[i] == c[j]. The right window shows the program's output.

Source Code (B11200053_HW5_3.cpp):

```
1  #include<iostream>
2  using namespace std;
3  int main(){
4      int a;
5      cin>>a;
6      int b[a],c[a];
7      for(int i=0;i<a;i++){
8          cin>>b[i];
9      }
10     for(int i=0;i<a;i++){
11         cin>>c[i];
12     }
13     int count=0;
14     for(int i=0;i<a;i++){
15         if(b[i]==c[i]){
16             count+=1;
17         }
18     }
19     cout << count;
20     return 0;
```

Execution Output (B11200053_HW5_3.exe):

```
4
1 2 3 4
4 3 2 1
0
```