

# 1.

The screenshot shows a C++ IDE with a file named `B11200053_HW6_1.cpp` open. The code implements a bubble sort algorithm. The `main` function initializes an array `a` with 10,000 elements and a string `s`. A terminal window displays the output of the program, which is a 2x5 grid of numbers: `3 5 2` and `1 2 0`.

```
1 #include<iostream>
2 #include<string>
3 #include<sstream>
4 using namespace std;
5
6 void bubble_sort(int *arr,int length){
7     for(int i = 0; i<length-1;i++){
8         for(int j = 0;j<length-i-1;j++){
9             if(arr[j]>arr[j+1]){
10                 int tmp = arr[j];
11                 arr[j] = arr[j+1];
12                 arr[j+1] = tmp;
13             }
14         }
15     }
16 }
17
18 int main(){
19     int i = 0,a,1[10000],1s[10000];
20     string s;
```

Terminal output:

```
3 5 2
1 2 0
```

The screenshot shows a C++ IDE with a file named `B11200053_HW6_1.cpp` open. The code implements a bubble sort algorithm. The `main` function initializes an array `a` with 10,000 elements and a string `s`. A terminal window displays the output of the program, which is a 2x5 grid of numbers: `2 2 3` and `0 0 2`.

```
1 #include<iostream>
2 #include<string>
3 #include<sstream>
4 using namespace std;
5
6 void bubble_sort(int *arr,int length){
7     for(int i = 0; i<length-1;i++){
8         for(int j = 0;j<length-i-1;j++){
9             if(arr[j]>arr[j+1]){
10                 int tmp = arr[j];
11                 arr[j] = arr[j+1];
12                 arr[j+1] = tmp;
13             }
14         }
15     }
16 }
17
18 int main(){
19     int i = 0,a,1[10000],1s[10000];
20     string s;
```

Terminal output:

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

The screenshot shows a C++ IDE with a file named `B11200053_HW6_1.cpp` open. The code implements a bubble sort algorithm. It reads a string `s` from standard input, converts it to an `istringstream`, and then sorts the characters in ascending order. The output is printed as a sequence of characters separated by spaces, with a newline character at the end.

```
19 int i = 0, a, l[10000], ls[10000];
20 string s;
21 getline(cin, s);
22 istringstream iss(s);
23
24 while(iss >> a){
25     l[i] = a;
26     ls[i] = a;
27     i++;
28 }
29 bubble_sort(ls, i);
30 for(int j=0; j<i; j++){
31     int k = 0;
32     while(l[j] != ls[k]){
33         k++;
34     }
35     cout << k << ' ';
36 }
37 cout << '\b';
38 return 0;
```

The output window shows the result of the program execution:

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

3.

The screenshot shows a C++ IDE with a file named `B11200053_HW6_3.cpp` open. The code reads a string `a` from standard input and processes it by counting the occurrences of the characters 'A', 'B', 'C', and 'D'. The output is printed as a sequence of characters separated by spaces, with a newline character at the end.

```
1 #include<iostream>
2 #include<string>
3 using namespace std;
4
5 int main(){
6     string a;
7     cin >> a;
8     for(int i=0; i<a.length(); i++){
9         if(a[i]=='A'){
10             cout << "A" << ' ';
11         }
12         else if(a[i]=='B'){
13             cout << "B" << ' ';
14         }
15         else if(a[i]=='C'){
16             cout << "C" << ' ';
17         }
18         else if(a[i]=='D'){
19             cout << "D" << ' ';
20     }
21 }
```

The output window shows the result of the program execution:

```
SOS
... ..
```

B11200053\_HW4\_1.cpp M B11200053\_HW4\_2.cpp M B11200053\_HW6\_3.cpp M X HW7.pdf

CompetitionCodingNote > class > HW7 > 芋涵 > B11200053\_HW6\_3.cpp > main()

```
1 #include<iostream>
2 #include<string>
3 using namespace std;
4
5 int main(){
6     string a;
7     cin >> a;
8     for(int i=0;i<a.length();i++){
9         if(a[i]=='A'){
10             cout << ".-" << ' ';
11         }
12         else if(a[i]=='B'){
13             cout << "-..." << ' ';
14         }
15         else if(a[i]=='C'){
16             cout << "-.-." << ' ';
17         }
18         else if(a[i]=='D'){
19             cout << "-.." << ' ';
20         }
21     }
22 }
```

D:\code\github\CompetitionCodingNote\build\B11200053\_HW6\_3.exe

YOU

問題 輸出 偵錯主控台 終端機 連接埠 TRANSFORMATION HUB CODE REFERENCE LOG build (CompetitionCodingNote) - Task ✓ 空格: 4 UTF-8 CRLF {} C++ Go Live Win32

\* 工作將被重新啟用.按任意鍵關閉.

B11200053\_HW4\_1.cpp M B11200053\_HW4\_2.cpp M B11200053\_HW6\_3.cpp M X HW7.pdf

CompetitionCodingNote > class > HW7 > 芋涵 > B11200053\_HW6\_3.cpp > main()

```
1 #include<iostream>
2 #include<string>
3 using namespace std;
4
5 int main(){
6     string a;
7     cin >> a;
8     for(int i=0;i<a.length();i++){
9         if(a[i]=='A'){
10             cout << ".-" << ' ';
11         }
12         else if(a[i]=='B'){
13             cout << "-..." << ' ';
14         }
15         else if(a[i]=='C'){
16             cout << "-.-." << ' ';
17         }
18         else if(a[i]=='D'){
19             cout << "-.." << ' ';
20         }
21     }
22 }
```

D:\code\github\CompetitionCodingNote\build\B11200053\_HW6\_3.exe

HBLP

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