

1.) Functions

```
#include <iostream>

#include <cstdio>

using namespace std;

int max_of_four(int a, int b, int c, int d) {

    int max = a;

    if (b > max) {

        max = b;

    }

    if (c > max) {

        max = c;

    }

    if (d > max) {

        max = d;

    }

    return max;

}

int main() {

    int a, b, c, d;

    scanf("%d %d %d %d", &a, &b, &c, &d);


    int ans = max_of_four(a, b, c, d);


    printf("%d", ans);


    return 0;


}
```

✓ Test case 0

✓ Test case 1 

✓ Test case 2 

✓ Test case 3 

✓ Test case 4 

Compiler Message

Success

Input (stdin)

[Download](#)

1	3
2	4
3	6
4	5

Expected Output

[Download](#)

1	6
---	---

2.) Pointer

```
#include <stdio.h>

void update(int *a,int *b) {

    int sum = *a+*b;

    int subtract;

    if(*a>*b)

    {

        subtract = *a-*b;

    }

    else

    {

        subtract = *b-*a;

    }

    *a = sum;

    *b = subtract;

}

int main() {

    int a, b;

    int *pa = &a, *pb = &b;

    scanf("%d %d", &a, &b);

    update(pa, pb);

    printf("%d\n%d", a, b);

    return 0;

}
```

✔ Test case 0

✔ Test case 1

✔ Test case 2

✔ Test case 3

✔ Test case 4

Compiler Message

Success

Input (stdin) [Download](#)

1	4
2	5

Expected Output [Download](#)

1	9
2	1

3.) Arrays Introduction

```
#include <iostream>

using namespace std;

int main() {
    int n ;
    cin >> n;
    int a[n] ;
    for(int i = 0 ; i<n ;i++)
    {
        cin >> a[i];
    }
    for(int i=n-1 ; i>=0 ; i--)
    {
        cout << a[i] << " ";
    }
    return 0;
}
```

The screenshot shows a HackerRank test case interface. On the left, there is a vertical list of test cases, each with a green checkmark icon and a lock icon. The test cases are labeled 'Test case 0' through 'Test case 6'. On the right, there is a 'Compiler Message' section with a 'Success' message. Below this, there is a 'Hidden Test Case' section with a lock icon and the text 'Unlock this testcase for 5 hackos.' and an 'Unlock' button.

4.) Strings

```
#include <iostream>

#include <string>

using namespace std;

int main() {
    string a, b;
    cin >> a >> b;

    cout << a.size() << " " << b.size() << endl;
    cout << a + b << endl;

    char temp = a[0];
    a[0] = b[0];
    b[0] = temp;

    cout << a << " " << b << endl;

    return 0;
}
```

The screenshot displays a HackerRank test runner interface. On the left, a sidebar lists six test cases, all marked as 'Test case 0' with a green checkmark and a lock icon. The main area shows the 'Compiler Message' as 'Success'. Below this, the 'Input (stdin)' is shown as a table with two rows: 'abcd' and 'ef'. To the right of the input table is a 'Download' link. The 'Expected Output' is shown as a table with three rows: '4 2', 'abcdef', and 'ebcd af'. To the right of the output table is another 'Download' link.

Input (stdin)	
1	abcd
2	ef

Expected Output	
1	4 2
2	abcdef
3	ebcd af

5.) Class

```
#include <iostream>
#include <sstream>
using namespace std;

class Student {
private:
    int age;
    string first_name;
    string last_name;
    int standard;

public:
    void set_age(int a) {
        age = a;
    }

    void set_first_name(string fname) {
        first_name = fname;
    }

    void set_last_name(string lname) {
        last_name = lname;
    }

    void set_standard(int std) {
        standard = std;
    }

    int get_age() {
        return age;
    }
}
```

```
}

string get_first_name() {
    return first_name;
}

string get_last_name() {
    return last_name;
}

int get_standard() {
    return standard;
}

string to_string() {
    stringstream ss;
    ss << age << "," << first_name << "," << last_name << "," << standard;
    return ss.str();
}

};

int main() {
    int age, standard;
    string first_name, last_name;

    cin >> age >> first_name >> last_name >> standard;

    Student st;
    st.set_age(age);
    st.set_standard(standard);
    st.set_first_name(first_name);
```

```
st.set_last_name(last_name);

cout << st.get_age() << "\n";
cout << st.get_last_name() << ", " << st.get_first_name() << "\n";
cout << st.get_standard() << "\n";
cout << "\n";
cout << st.to_string();

return 0;
}
```

The screenshot displays a HackerRank submission interface with a dark theme. On the left, a sidebar lists six test cases, all marked as 'Test case 0' with green checkmarks and lock icons. The main area is divided into three sections: 'Compiler Message' showing 'Success', 'Input (stdin)' with a table of four rows, and 'Expected Output' with a table of three rows. Each of the last two sections has a 'Download' link. A vertical scrollbar is on the right.

1	15
2	john
3	carmack
4	10

1	15
2	carmack, john
3	10