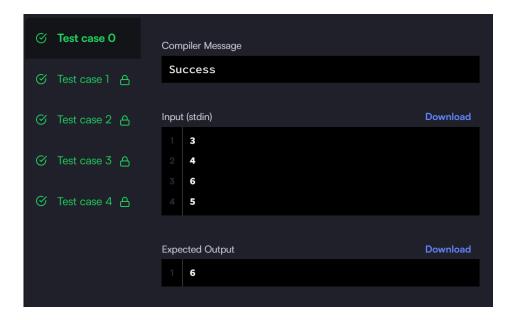
1.) Functions

```
#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);
```

return 0;

printf("%d", ans);



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;
}
```

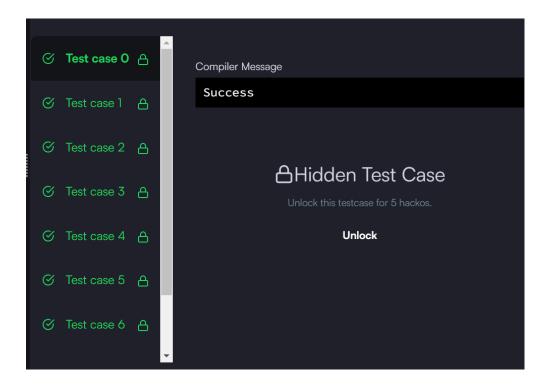
Compiler Message Success Input (stdin) **Expected Output**

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;
}</pre>
```



4.) Strings

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

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

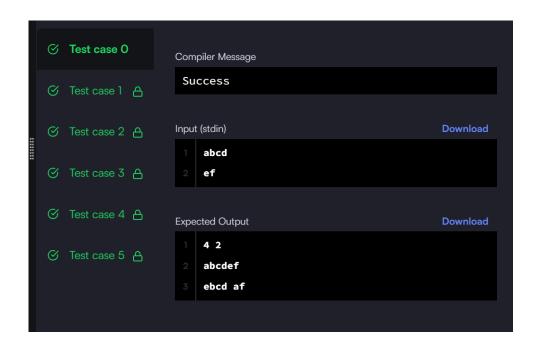
    cout << a.size() << " " << b.size() << endl;

    cout << a + b << endl;

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

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

    return 0;
}</pre>
```



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 Iname) {
    last_name = Iname;
  }
  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;
}</pre>
```

