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;

}

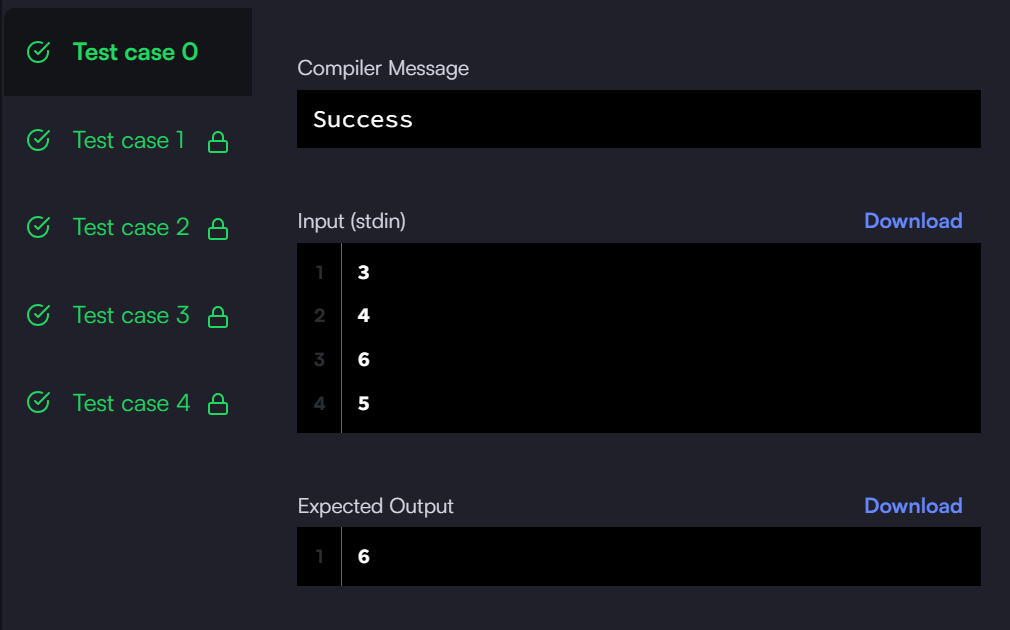
int main() {

    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;

}

1. **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;

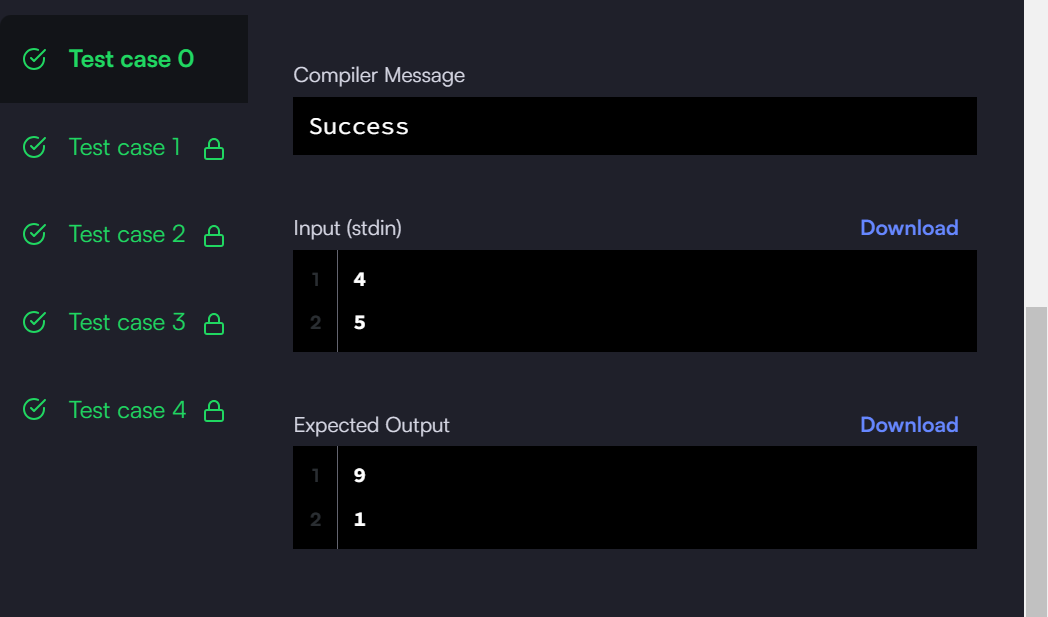
    int \*pa = &a, \*pb = &b;

    scanf("%d %d", &a, &b);

    update(pa, pb);

    printf("%d\n%d", a, b);

    return 0;

}

1. **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--)

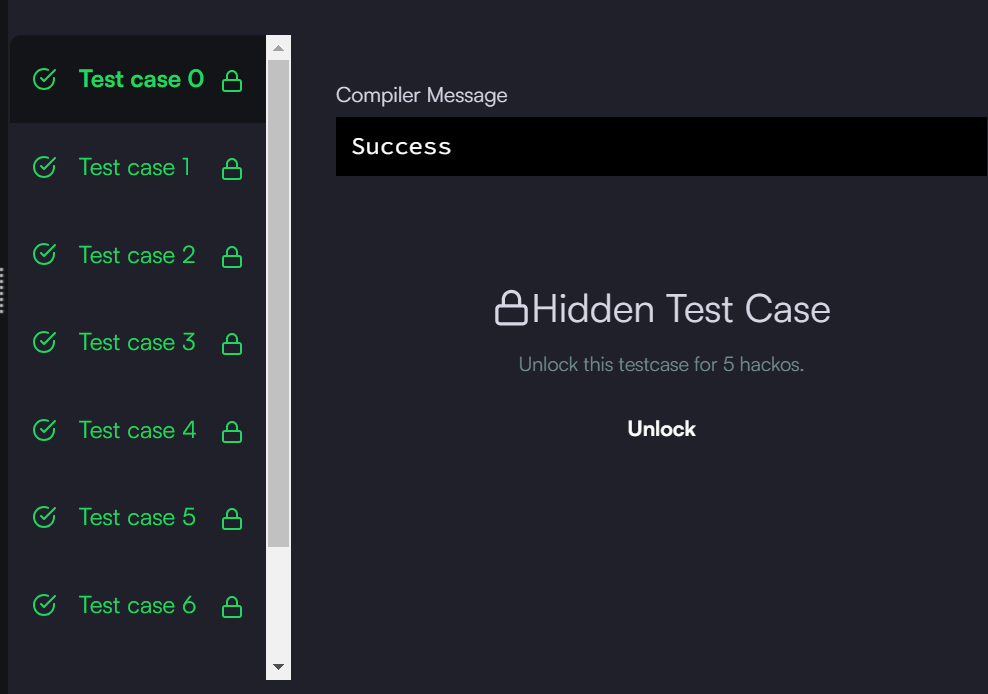
    {

        cout << a[i] << " ";

    }

    return 0;

}



1. **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];

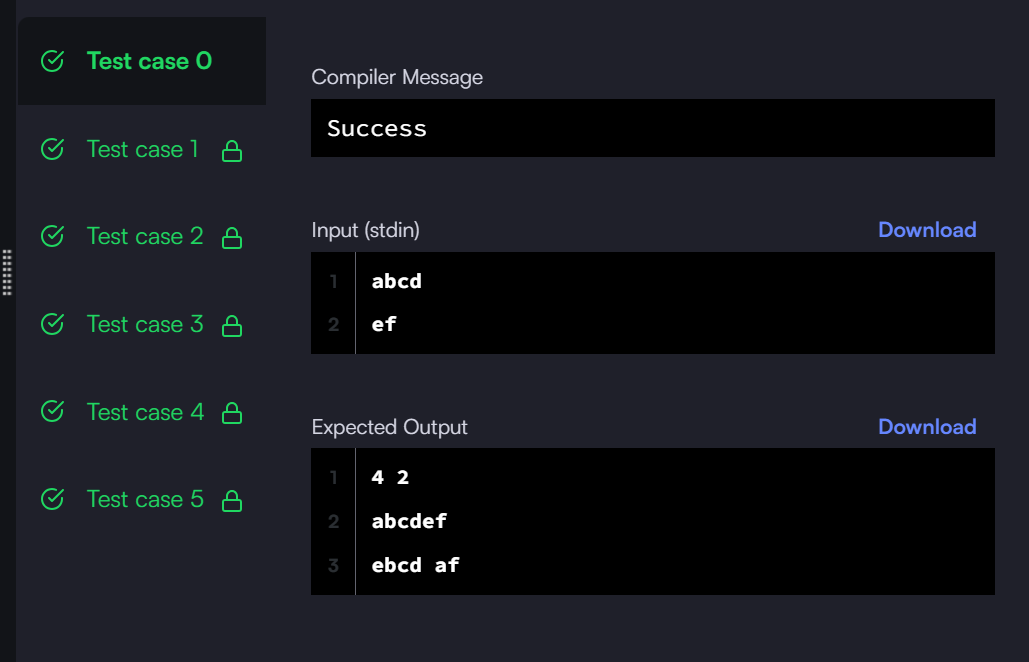
    a[0] = b[0];

    b[0] = temp;

    cout << a << " " << b << endl;

    return 0;

}



1. **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;

}

