

Fundamentals Of Programming

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LAB Manual 6 LAB task

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```
//Generate a Fibonacci sequence using nested loops.

#include <iostream>
using namespace std;

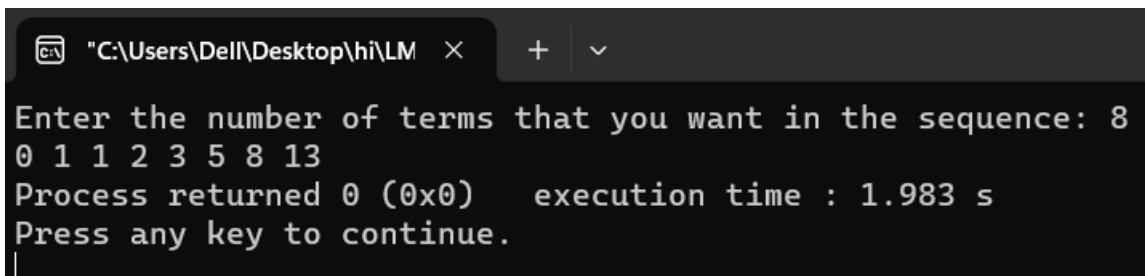
int main() {
    int p=0, q=1, r, s;

    cout << "Enter the number of terms that you want in the sequence: ";
    cin >> s;

    cout << p << " " << q << " ";

    for (int i = 2; i < s; i++) {
        r = p + q;
        p = q;
        q = r;
        cout << r << " ";
    }

    return 0;
}
```



```
"C:\Users\Dell\Desktop\hi\LM" X + v
Enter the number of terms that you want in the sequence: 8
0 1 1 2 3 5 8 13
Process returned 0 (0x0)   execution time : 1.983 s
Press any key to continue.
```

```
//Create a Pascal triangle with nested loops.
```

FLOYD'S*

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

int main() {
    int a, b, c, d = 1;

    cout << "Enter the number of rows for the triangle: ";
    cin >> a;

    for (b = 1; b <= a; b++) {
        for (c = 1; c <= b; c++) {
            if (c <= b) {
                cout << d << " ";
                d++;
            }
        }
        cout << endl;
    }

    return 0;
}
```



"C:\Users\Dell\Desktop\hi\LM" ×



Enter the number of rows for the triangle: 5

1

2 3

4 5 6

7 8 9 10

11 12 13 14 15

Process returned 0 (0x0) execution time : 1.656 s

Press any key to continue.

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