

Create Pascal's triangle with nested loops.

```
#include <iostream>

using namespace std;

int main() {

    int rows;

    cout << "Enter the number of rows: ";

    cin >> rows;

    for (int i = 0; i < rows; i++) {

        int number = 1;

        for (int j = 0; j < rows - i; j++) {

            cout << "  ";

        }

        for (int j = 0; j <= i; j++) {

            cout << "    " << number;

            number = number * (i - j) / (j + 1);

        }

        cout << endl;

    }

    return 0;

}
```

```
Output
/tmp/M0tE9T6QG7.o
Enter the number of rows: 4
      1
     1 1
    1 2 1
   1 3 3 1
```

Generate the Fibonacci sequence using nested loops.

```
#include <iostream>

using namespace std;

int main() {

    int n;

    cout << "Enter the number of terms: ";

    cin >> n;

    int x = 0, y = 1;

    for (int i = 1; i <= n; ++i) {

        cout << x << " ";

        int sum = x + y;

        x = y;

        y = sum;

        for (int j = 2; j <= i; ++j) {

            cout << x << " ";

            int sum = x + y;

            x = y;

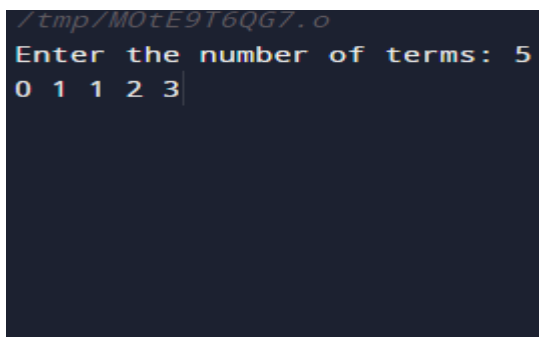
            y = sum;

        }

    }

    return 0;

}
```



A terminal window with a dark background. The prompt is `/tmp/M0tE9T6QG7.o`. The user has entered `5` in response to the prompt `Enter the number of terms:` . The output of the program is `0 1 1 2 3`, followed by a cursor.