```cpp
//File: lab9.cpp
//Name: Duncan, McFarlane
//Date: 2/20/2020
//Compiler used: MS Visual Studio 2017
//Purposes: program 1: print out a multiplication Table


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

int main() {
        int row = 1;
        int column = 0;
        const int NUMROWS = 4;
        const int NUMCOLUMNS = 10;

        for (row = 1; row < NUMROWS+1; row++)
        {
                for (column = -1; column < NUMCOLUMNS; column++)
                {
                        if (column == -1)
                                cout << setw(4) << row;
                        else
                                cout << setw(4) << row*column;
                }
                cout << endl;
        }
        return 0;
}
```

```
   1   0   1   2   3   4   5   6   7   8   9
   2   0   2   4   6   8  10  12  14  16  18
   3   0   3   6   9  12  15  18  21  24  27
   4   0   4   8  12  16  20  24  28  32  36
```

```cpp
//File: lab9_1.cpp
//Name: Duncan, McFarlane
//Date: 2/20/2020
//Compiler used: MS Visual Studio 2017
//Purposes: program 1: print out a pyramid with a width given by the user


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

int main() {
        int numPeak = 0;
        bool peaked = false;
        int i = 1;
        cout << "Enter how many charecters wide the peak of the pyramid should be:";
        cin >> numPeak;

        while (i > 0)
```

```cpp
	{
		cout << string(i, '*') << endl;
		if (!peaked)
		{
			i++;
			peaked = (i == numPeak);
			if (peaked)
			{
				cout << string(i, '*') << endl;
			}

		}
		else
			i--;
	}
	return 0;
}
```