CSCI 2170 Quiz 2   **Name** _____

1. Show C++ **nested for loop** to **initialize** the 5x5 two-dimensional array named "values" to have values as shown below. (hint: every element of the array has the value equal to (row subscript+1) multiplied by (col subscript+1).

```
1   2   3    4    5
2   4   6    8    10
3   6   9    12   15
4   8   12   16   20
5   10  15   20   25
```

2. **Show the output of the following program:** (*list the program outputs in the order as they display on screen)*

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

int Mystery(int);
int x, y;
int main() {
    int x=0;

    y = Mystery(5)+ 4;
    cout << "After first calling Mystery, x = " << x << ", y = " << y << endl;

     y = Mystery( x ) * 2 ;
    cout << "After second calling Mystery, x = " << x << ", y = " << y << endl;

     return 0;
}

int Mystery (int num) {
    static int  y=2;

    y=y+num;
    x = y+10;
    cout << "In Mystery, x= "  << x << ", y=" << y << ", num=" << num << endl;

    return x;
}
```

Your answer:

[answer box]