

Advanced Output Section 3.7

- How can we force output to look a particular way?
 - Precision of numbers
 - Spacing around output

Here are some floating point numbers:

```
72.0
72.00
72.000
```

Here is a table of data:

```
   4   cat   15
  100   6   2.1
```

Outputting with Spacing

```
#include <iostream>
#include <iomanip> //New Library!
#include <string>

using namespace std;

int main()
{
    string name = "cs150";
    int integer = 42;

    cout << setw(6) << name << setw(6) << integer << endl;
    cout << setw(4) << integer << endl;

    return EXIT_SUCCESS;
}
```

Setw

- Setw is not *sticky*
 - you must specify it every time

```
int integer = 42;
cout << setw(6) << integer << integer << endl;

//output?
```

Practice

- Write a program segment that allows the user to input two integer values. Display both numbers as shown below, always displaying the smaller number first.

```
Please enter two numbers: 100 9
The numbers are:
    9
   100
```
