CS 161
Intro to CS I

Conditional Execution & Strings
Chap. 2.2
Odds and Ends

• What is Putty vs. vim?
• Are you reading your text?
  – Why include libraries?
  – Why have the main function?
  – Why declare variables before using them?
• How do we use functions, e.g. pow()
  – Finding more information
• Assignment #2: C++ Strings
```cpp
#include <iostream>
#include <string>

using namespace std;

int main() {
    string name = "jennifer";
    string another_name;

    cout << "Enter a name: ";
    cin >> another_name;

    if(name.compare(another_name)==0)
        cout << "we match";

    /*switch('a') {
        case 'a':
            cout << "yeah we match";
            break;
    }
*/
    return 0;
}
```
Other topics...

• Quiz #2/Pseudocode:
  Print message for user to enter shape
  Read shape from user
  Print message for user to enter calculation
  Read calculation from user
  If shape is rectangle
    read h
    read w
    if calculation is volume or calculation is both
      read length
      print volume is h*w*length
    if calculation is area or calculation is both
      print area is h*w

• C’s string compare: strcmp() from <string.h>
• C/C++: sqrt() from math library
We can use a switch...

```java
switch( <expression> ) {
    case <const-expr>:
        <statement>;
        ...
    case <const-expr>:
        <statement>;
        ...
    default:
        <statement>;
        ...
}
```
C/C++ Switch Example

```c
switch( x ) {
    case 0:
        printf("X is zero\n");
        break;
    case 1:
        printf("X is one\n");
        break;
    case 2:
        printf("X is two\n");
        break;
    default:
        printf("You have entered an invalid number!!!\n");
}
```