CS 161
Intro to CS I

Finish Command-Line Arguments
• Last week to demo Assignment 5
• Peer Review A6 design due tomorrow
• Make sure grades are accurate on Canvas
• Final Exam: Thursday (3/21) in WNGR 151
  – Section 001, 12-1pm
  – Section 002, 1-2pm
  – If you don’t take final, then I’ll average Exam 1 & 2

• Questions?
Reflection: Command-line Arguments

• How many command line arguments are you expecting for the assignment extra credit?
  \texttt{a.out \textasciitilde u wire \textasciitilde r .321 \textasciitilde c .12 \textasciitilde k 52.4}

• What does the 2-d array look like for the following command-line arguments?
```cpp
#include <iostream>

using namespace std;

int main()
{
    // what do we need to enter for the parameters of main?
    // how will you determine if the user supplied all the command-line args

    // how will you process all the option value pairs in any order

    // how will you determine if the option is a good option

    // how will you determine if the value is valid

    return 0;
}
```
Demo...
How does freeing memory work?

```
int *r[5], **s;

for(int i=0; i < 5; i++)
    r[i]=new int;
for(int i=0; i < 5; i++)
    delete r[i];

for(int i=0; i < 5; i++)
    r[i]=new int[5];
for(int i=0; i < 5; i++)
    delete [] r[i];

s=new int*[5];
for(int i=0; i < 5; i++)
    s[i]=new int[5];
for(int i=0; i < 5; i++)
    delete [] s[i];
delete [] s;
```