CS 161
Intro to CS I

Finish Multidimensional Arrays
Odds and Ends...

• How many could use more time on Assign 5?
• Assignment 6 posted
• Exam Wednesday
• Study Sessions
  – Monday, 6-7:30pm KEC 1001
  – Tuesday, 5:30-7pm WNGR 149

Wed. midnight extra if early
Command-line Arguments

```c
main(int argc, char *argv[]) {
    how many argument values
    a.out ← have 1 argument
    + name of prog.
    argv[0] argv[1] argv[2] ...
    argv[0] argv[1] argv[2] ...
    a.out 2
    argc=5
}```
```cpp
#include <iostream>

using namespace std;

int main(int argc, char *argv[]) {
    char word[30];
    cout << "how many arguments: " << argc << endl; // by default 1
    // first command line argument is always name of prog executable
    cout << "name of prog is 1st arg: " << argv[0] << endl;
    cout << "1st char in prog name: " << argv[0][0] << endl;
    // you should access 2nd argument, unless argc is 2 or greater
    cout << "2nd arg: " << argv[1] << endl;
    cout << "1st char in 2nd arg: " << argv[1][0] << endl;
    cin >> word; // by default, cin reads from keyboard
    cout << word << endl; // by default, cout prints to monitor
    return 0;
}
```

Command-line and Redirect Input

```bash
flip2 ~/cs161/private/sec2 177% a.out 2
how many arguments: 2
name of prog is 1st arg: a.out
1st char in prog name: a
2nd arg: 2
1st char in 2nd arg: 2
hello
hello
flip2 ~/cs161/private/sec2 178% a.out 2 < word_file
how many arguments: 2
name of prog is 1st arg: a.out
1st char in prog name: a
2nd arg: 2
1st char in 2nd arg: 2
hello
flip2 ~/cs161/private/sec2 179%
```

*entered by Keyboard*

*entered by file*