

CS 161

Intro to CS I

Finish Command-Line Arguments

Odds and Ends

- 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?

a.out -u wire -r .321 -c .12 -k 52.4



- What does the 2-d array look like for the following command-line arguments?

a	.	o	u	t	\0
-	u	\0			
w	i	r	e	\0	

!

char
argv[0]
C-style
*char **

```
1 #include <iostream>
2
3 using namespace std;
4
5 //what do we need to enter for the parameters of main?
6 int main() {
7     //how will you determine if the user supplied all the command-line args
8
9
10
11     //how will you process all the option value pairs in any order
12
13
14
15     //how will you determine if the option is a good option
16
17
18
19     //how will you determine if the value is valid
20
21
22
23
24     return 0;
25 }
```

Demo...



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How does freeing memory work?



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```
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;
```