

**Introduction to Computer Science**  
**W 1113 – Lab (C)**  
**Lab2**

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2/5/04

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**Questions about the previous lab**

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**Questions about HW1 (or HW0)**

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## Who did man gcc?

- Tell me something interesting about it...

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## Recap

- Intro to Unix, Hardware, Server-Client relationships, concept behind telnet
- Intro to C
- Basic structure of a program
- Compiling and running programs
- Variables, and assigning values to them
- Data types and I/O
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## I/O Output in more detail

- `printf("%s %c %f %c%c\n", "one", 2, 3.33, 'G', 'o');`
- `%3c` – field width
- `%7.2f`
- HW1?

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## I/O Input

- scanf – analogous to printf
- scanf("%d", &x);
- You can scan in different types of data from files, user input or command line parameters.

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## Conversion between data types

- atoi
- atof
- atol
  
- Usage -> a = atoi(b)
  - Here the value of b is converted from string to integer.

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## Command line parameters

- argv & argc
- ./a.out 2 3 (to add two numbers)
- int argc, char \*argv[]

```
#include <stdio.h>

int main (int argc, char *argv[]) {
    int a, b;
    a = atoi(argv[1]);
    b = atoi(argv[2]);
    ... //do things with a and b
}
```

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## Math operators

- +, -, \*, /
- &
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## Arrays

- What are arrays?

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## Method calls

- What are methods?

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## Assignment

- Read Ch. 5 and start Ch. 6 from the Practical C Programming book
- Read pg. 200-206 from the Practical C Programming book
- man gcc
  
- **HW1**

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