

# CS120 Lab 4 Section 4

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## Quiz for Week 3 Answers

- ▶ In C++ a library is a file containing code that can be used in other programs.

What's the difference between a **library** and a **header** ?

<http://stackoverflow.com/questions/924485/>

whats-the-difference-between-a-header-file-and-a-librar

```
#include<stdio.h>
```

```
main() {
```

```
    printf("haiii");
```

```
}
```

- ▶ **header** file: interface
  - ▶ contains the function (printf) declaration;
  - ▶ during preprocessing, the printf function is replaced by the function declaration;
- ▶ **library** file: implementation
  - ▶ contains the function (printf) definition;
  - ▶ during linking, the function declaration is replaced with the function definition. Obviously, everything will be in object while linking.

## Quiz for Week 3 **Answers** (continue)

- ▶ A conditional is used in a program to control whether or not a piece of code is executed.

To be exact, instead of "a piece of code", it's "a block of code".

- ▶ The following code snippet will print Its true. (Type Conversion)

```
int x = 15;  
if(x + 20 > 2 * x){  
    cout << "It's true";  
}
```

## Quiz for Week 3 **Answers** (continue)

- ▶ The following code snippet will print the word here exactly ten times.

```
int x = 0;
while (x<10) {
    cout << "here";
}
```

Missed the **x += 1**; or **x = x + 1**; statement part;

- ▶ The following code snippet will print the value 2.

```
int x = 25;
double y = 10;
cout << x/y;
```

## Quiz Week 3 Scores Distribution

### ► Quiz for Week 3 Distribution

| Score                | 2 | 3 | 4  | 5  | Missed |
|----------------------|---|---|----|----|--------|
| Section 4 Count (22) | 0 | 4 | 12 | 5  | 1      |
| Section 6 Count (24) | 2 | 4 | 4  | 10 | 4      |

- Lab 2 & Assignment 2: Still haven't got access yet;
- Lab 3: Haven't got grading criteria yet;
- Will get these grading done as soon as we have organized them out.

# Lab 4 Specific Requirements

- ▶ **cscheckin:**
  - ▶ **Source Programs** only, with **file names** specifically named to be:
    - ▶ **piLab4Section4.cpp**
    - ▶ **eLab4Section4.cpp**
- ▶ **Hard Copy:**
  - ▶ **Source Programs**
  - ▶ **Outputs** of the programs