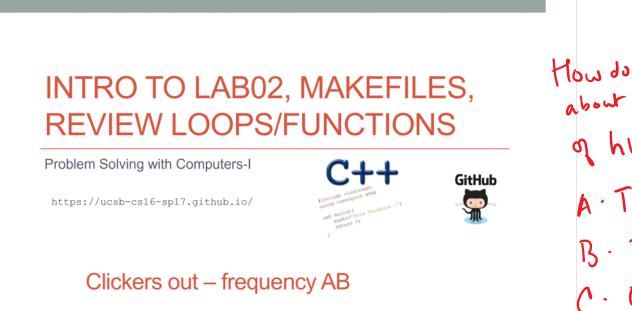
Lecture 5: Makefiles, intro to lab02, and review of loops and function mechanics

Monday, April 17, 2017 12:31 PM



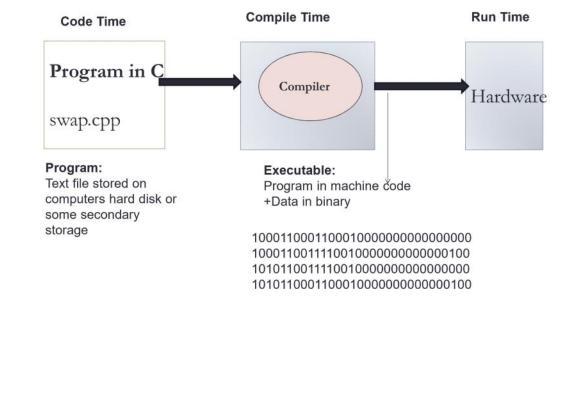
How do you feel about frequency of hws A. Too much B. Too little C. OKay

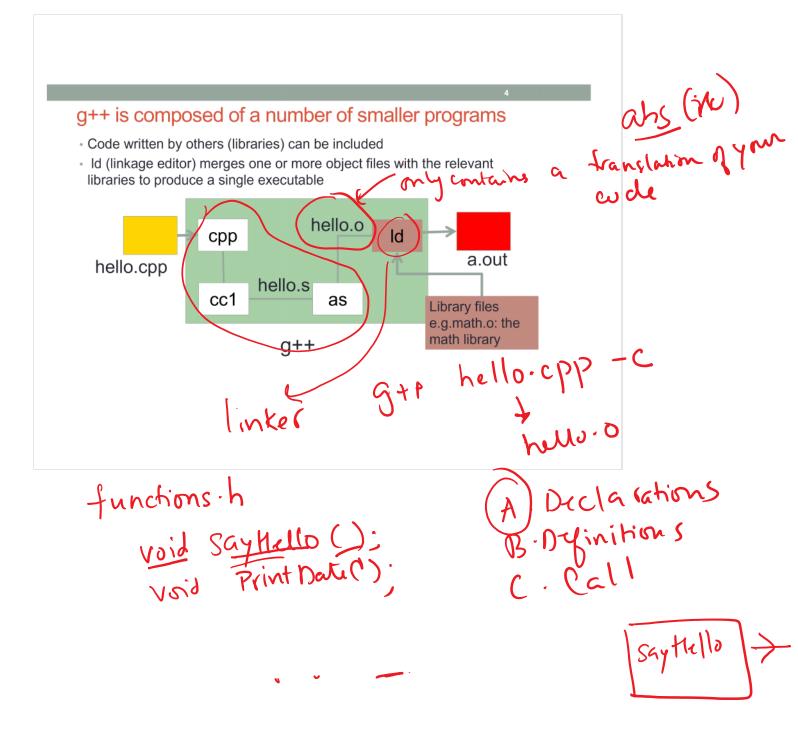
CS 16 Spring 2017 Page 1

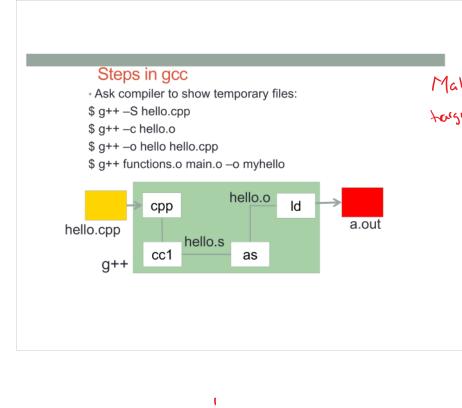
Demo

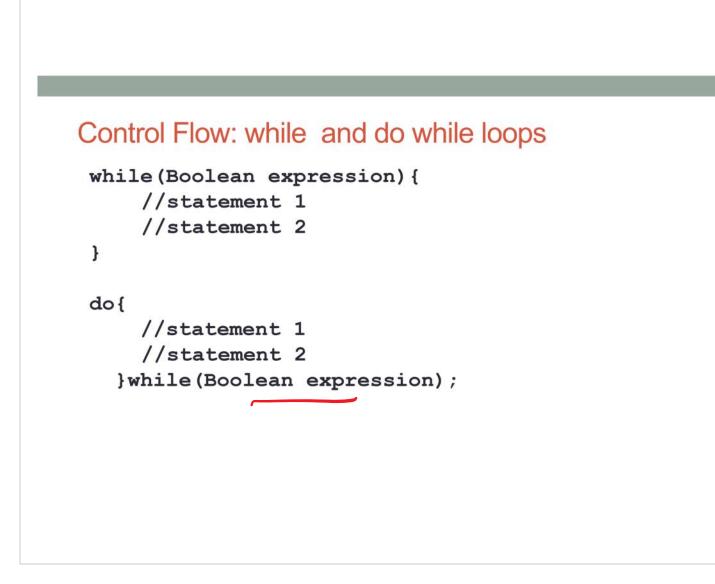
- Basics of code compilation in C++ (review)
- Makefiles (used to automate compilation of medium to large projects) consisting of many files
- We will start by using a makefile to compile just a single program
- Extend to the case where your program is split between multiple files
- By the end of this you should know what each of the following are and how they are used in program compilation
 - Header file (.h)
 - Source file (.cpp)
 - Object file (.o)
 - Executable
 - Makefile
 - Compile-time errors
 - Link-time errors











x++;

}

Identify the code that is not equivalent to the other two? Assume 'n' is an integer that has already been declared (may be positive or negative)

```
A. for( int x = 0; x < n; x++ ) {
    cout<<x <<endl;
    }
B. int x = 0;
    while(x < n) {
        cout<< x << endl;
    }
    while(x < x << endl;
    }
}</pre>
C. int x = 0;
do{
        cout<< x << endl;
    }
while(x < n) {
        cout<< x << endl;
    }
}
```

```
D. They are ALL equivalent
```

n = -1