SW complexity?

- Lots of lines in codes hard to understand
 Not reserve to many meaningful comments
 Too many year in the contract to understand
 - Too many variables not named well
- Complex functions too nested, too lengthy, too many if conditions
- Inter-dependancies changes that have to be done together in multiple files
- When you fix a bug, you make a few more.

C vs. C++

- C++ is backward cesplatible with C
- C++ supports QQD 36
 C++ standard library contains lot more functionality
- Improved I/O mechanism
- Lot of new header files
- C is very efficient, C++ is close too.

C++ vs. Java: Similarities

- Both support QQPerfost OOP library contents are similar, however Java continues to grow.
- Syntax is very close Java has strong influence of C/C++. Easy to learn the other language when you know one of these.

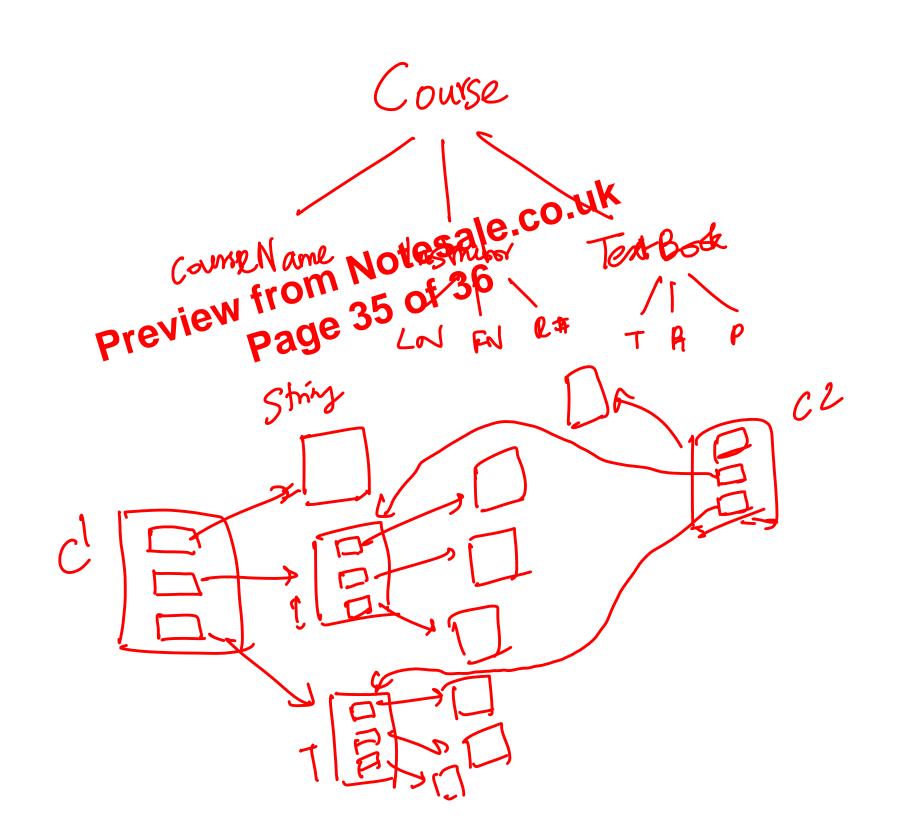
Sample C programs: prog1.c These are in ~veerasam/students/basics

```
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int in1, but;

double :
#include <stdio.h>
main()
    puts("Enter values:");
    scanf("%d%lf", &in1, &in2); // & means "address of"
         // %d int, %f float, %lf double
    out = in1 + in2;
    printf("Output is %d\n", out);
```



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