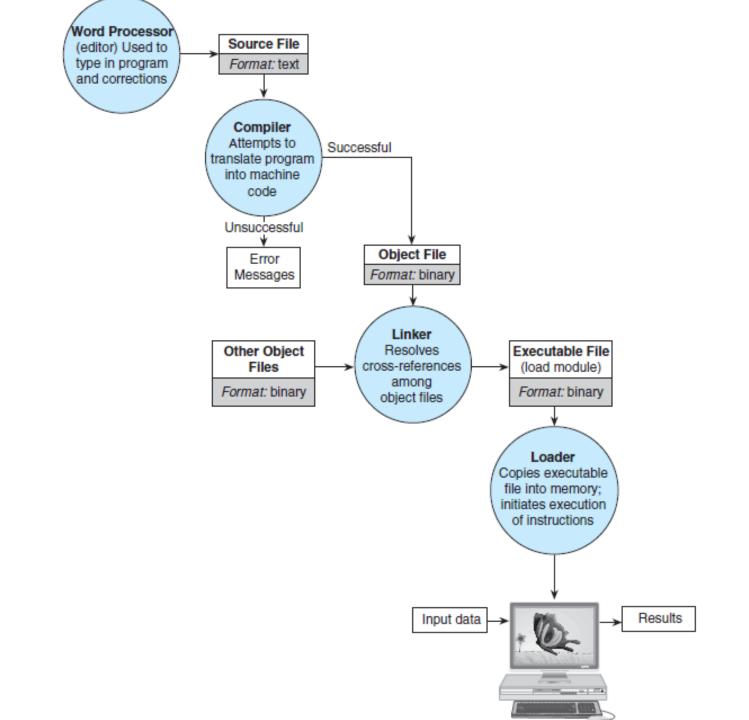
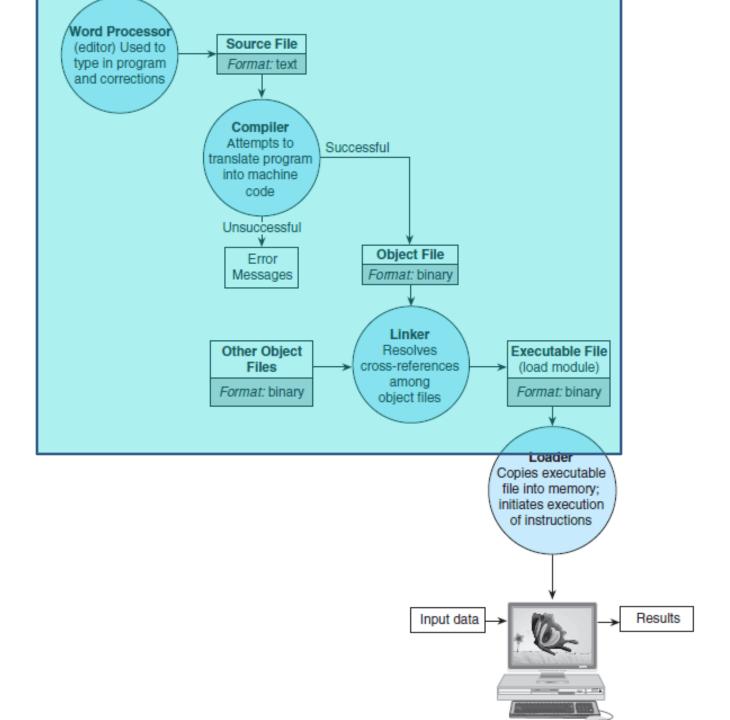
CSCI 112 Final review





Creating an executable

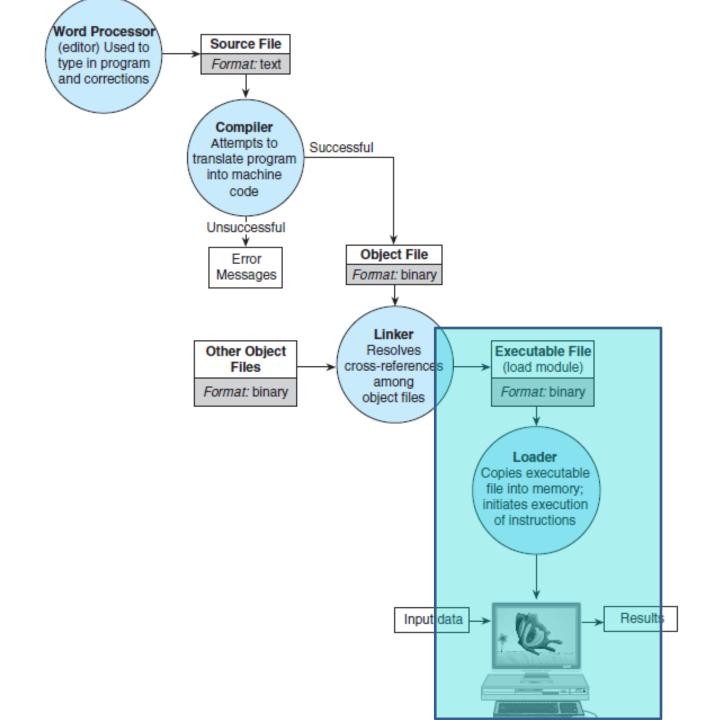
gcc –o exe myprogram.c –Wall

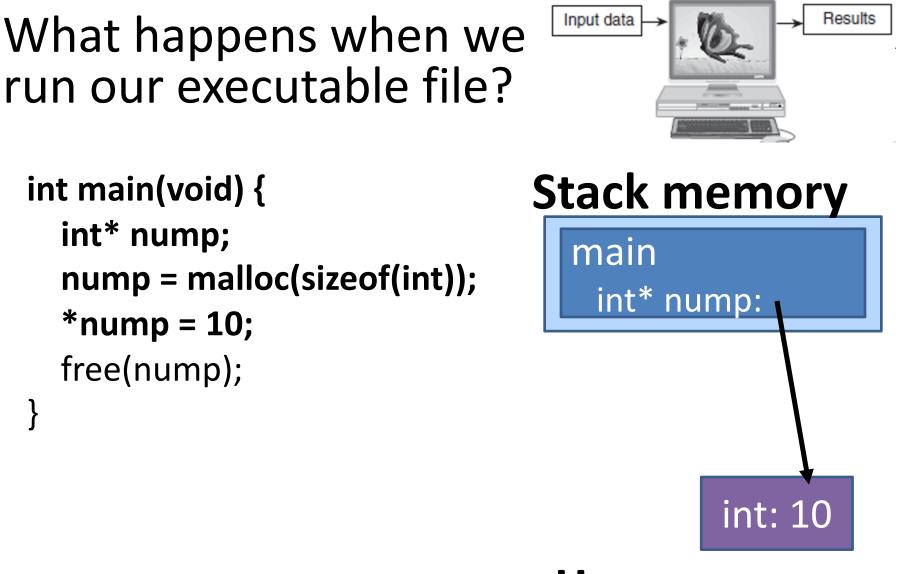
<u>Makefile</u>

lab7: lab7.o funcs.o gcc lab7.o funcs.o -o lab7

lab7.o: lab7.c lab7.h gcc -c lab7.c -Wall

funcs.o: funcs.c lab7.h gcc -c funcs.c -Wall





Heap memory

Reading in data

| Method of input | What C program looks like | How to run executable |
|--------------------------|---|--------------------------|
| Redirection | <pre>scanf("%d", &myint); scanf("%s", myword);</pre> | ./exe < input.txt |
| Open file in C | <pre>FILE* myfile; myfile = fopen("input.txt", "w") fscanf(myfile, "%d",&myint); fgets(line, 100 myfile);</pre> | ./exe |
| Command line argument | <pre>int main(int argc, char* argv[]) { int num_args = argc - 1; char* first_arg = argv[1];</pre> | ./exe FirstArg SecondArg |

Passing by value vs. passing by reference

- Arrays and strings are always passed by reference
- Ints, chars, doubles, pointers are passed by value, but you can pass in pointers to them to pass by value

Let's look at values_vs_reference.c