gcc compiler

- One of the stricter C compilers
- Visual Studio/Code Blocks/CLion do NOT use gcc by default
- You can switch your IDE's compiler to gcc
 - See setup guide!
- **Tip:** Write your code in the IDE of your choice, then test the final version on Eustis. If your IDE uses gcc, the result will be the same as Eustis *MOST* of the time

Clang compiler

```
main.c
                                                                                                                     https://NotedVibrantRuntimelibrary.tiffanydo.repl.run
      #include <stdio.h>
                                                                                                                     clang-7 -pthread -lm -o main main.c
      int addJ(int n)
                                                                                                                     > []
          int j;
          for(int i=0; i<n; i++)</pre>
              j++;
10
          return j;
11
      int main()
14
          printf("%d\n", addJ(12));
16
17
18
```

We did not assign int j = 0, but this is fine with that and automatically assigns j to 0 for us.

gcc compiler

```
main.c
                                                                                                                   https://NotedVibrantRuntimelibrary.tiffanydo.repl.run
                                                                                                                   clang version 7.0.0-3~ubuntu0.18.04.1 (tags/RELEASE 700/final)
      #include <stdio.h>
                                                                                                                   gcc main.c
      int addJ(int n)
                                                                                                                   ./a.out
                                                                                                                   -345610932
          int j;
          for(int i=0; i<n; i++)</pre>
              j++;
 10
          return j;
 11
 12
 13
      int main()
 14
          printf("%d\n", addJ(12));
 15
 16
 17
 18
 19
```

We did not assign int j = 0, but this is not fine in gcc. Same language (C), but different compilers!