

# ECS 36A, March 31, 2025

# Example Program: Hello, World!

```
#include <stdio.h>

int main(void)
{
    printf("hello, world!\n")

    return(0);
}
```

# Compiling

- In the shell, do this:

```
gcc -std=c11 -pedantic -Wall hello.c -o hello
```

# Compiling

- In the shell, do this:

```
gcc -std=c11 -pedantic -Wall -g hello.c -o hello
```





This is the compiler program

# Compiling

- In the shell, do this:

```
gcc -std=c11 -pedantic -Wall -g hello.c -o hello
```

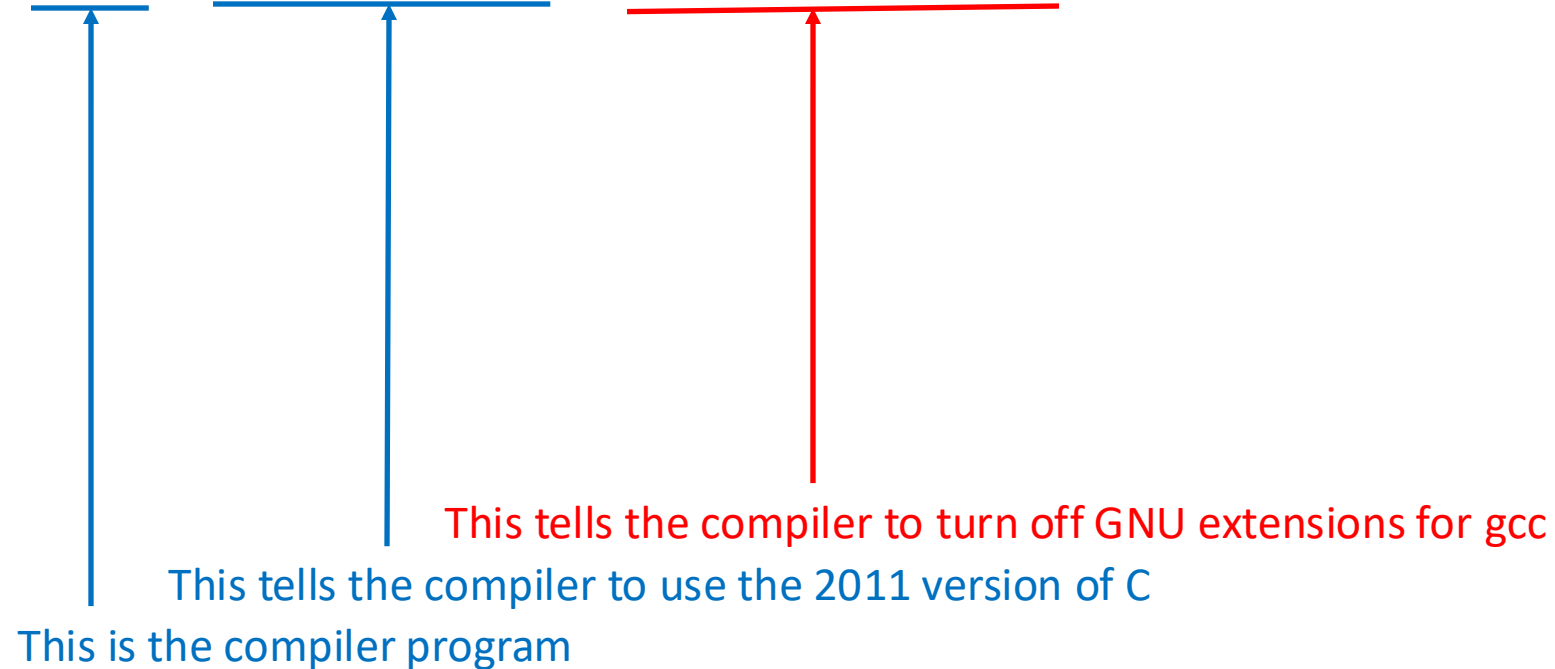
 This is the compiler program

 This tells the compiler to use the 2011 version of C

# Compiling

- In the shell, do this:

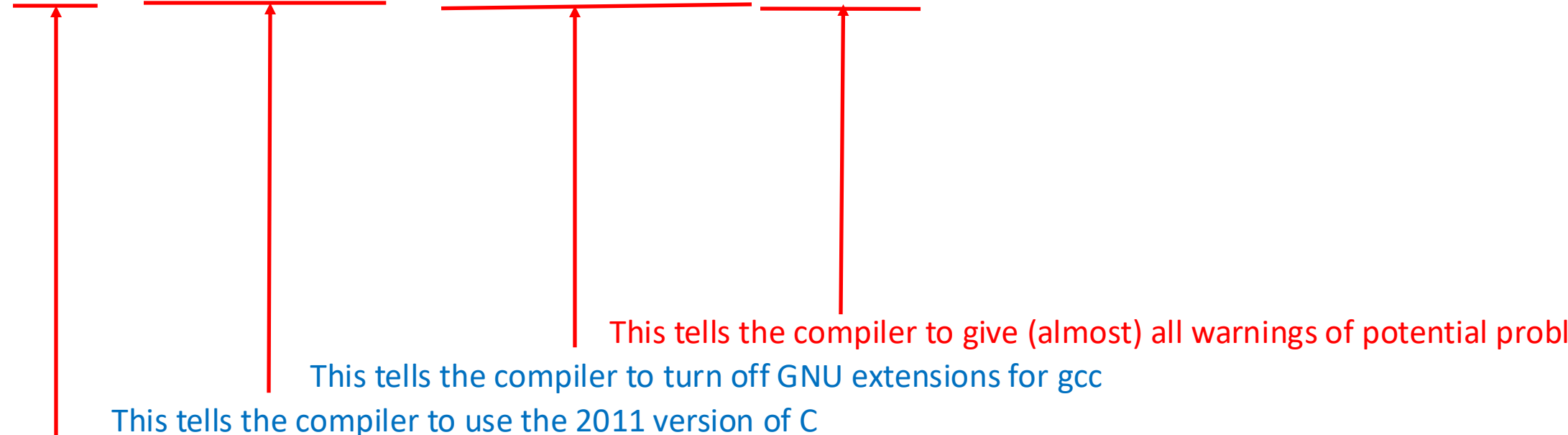
```
gcc -std=c11 -pedantic -Wall -g hello.c -o hello
```



# Compiling

- In the shell, do this:

```
gcc -std=c11 -pedantic -Wall -g hello.c -o hello
```



The diagram consists of four red arrows pointing upwards from explanatory text to specific parts of the command line. The first arrow points from 'This is the compiler program' to 'gcc'. The second arrow points from 'This tells the compiler to use the 2011 version of C' to '-std=c11'. The third arrow points from 'This tells the compiler to turn off GNU extensions for gcc' to '-pedantic'. The fourth arrow points from 'This tells the compiler to give (almost) all warnings of potential problems' to '-Wall'.

This is the compiler program

This tells the compiler to use the 2011 version of C

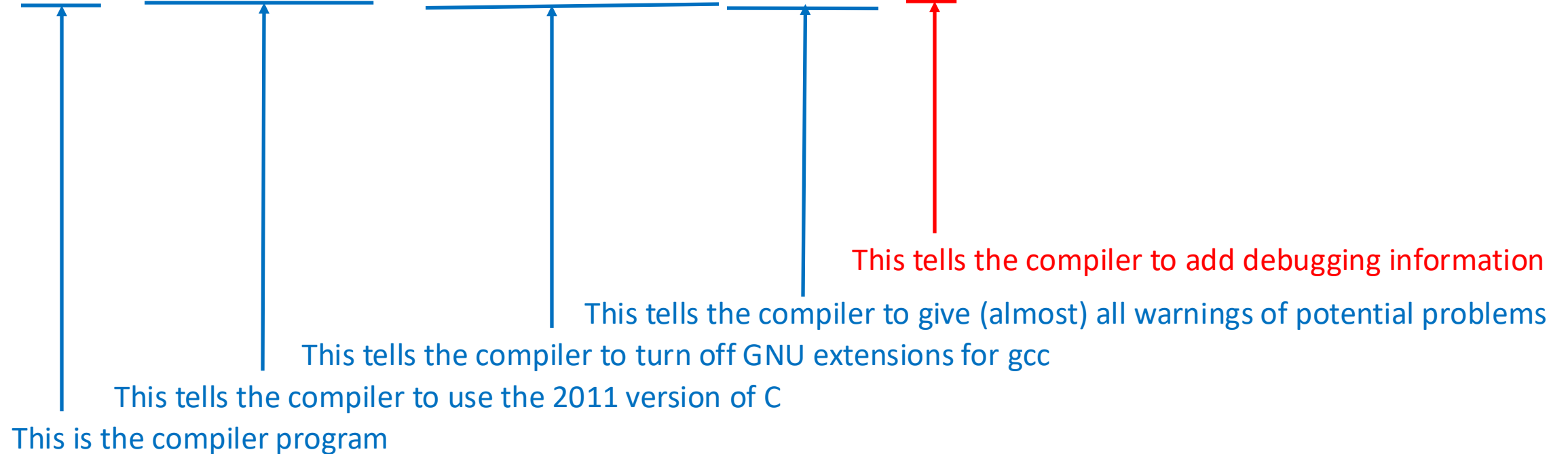
This tells the compiler to turn off GNU extensions for gcc

This tells the compiler to give (almost) all warnings of potential problems

# Compiling

- In the shell, do this:

```
gcc -std=c11 -pedantic -Wall -g hello.c -o hello
```

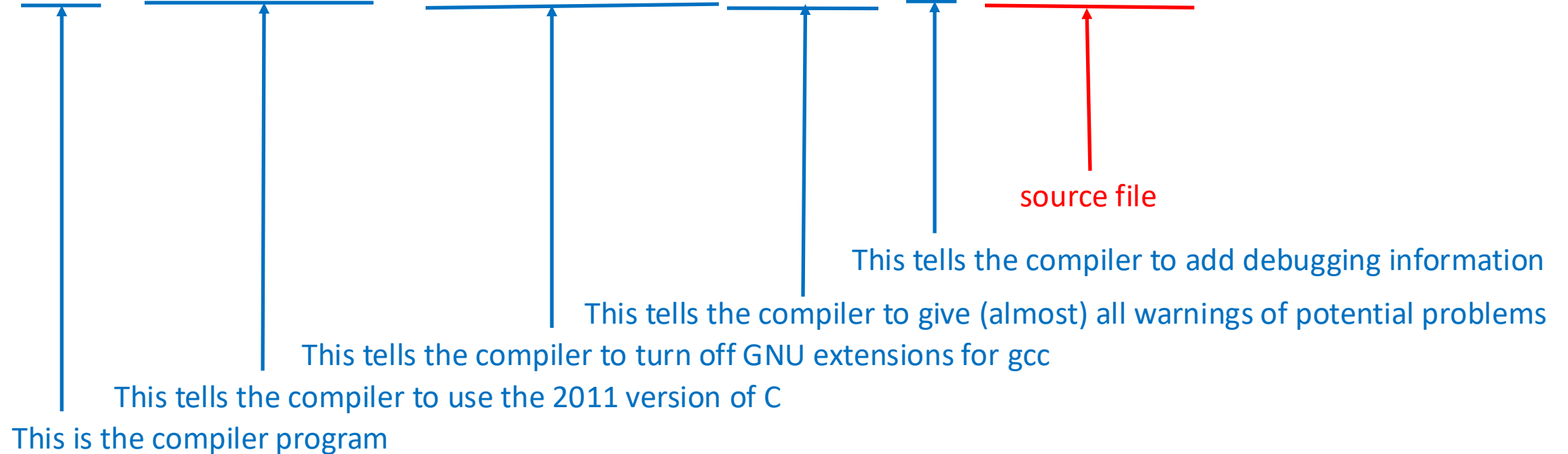




# Compiling

- In the shell, do this:

```
gcc -std=c11 -pedantic -Wall -g hello.c -o hello
```



# Compiling

- In the shell, do this:

`gcc -std=c11 -pedantic -Wall -g hello.c -o hello`

The diagram shows the command `gcc -std=c11 -pedantic -Wall -g hello.c -o hello` with arrows pointing to each part and its description:

- `gcc`: This is the compiler program.
- `-std=c11`: This tells the compiler to use the 2011 version of C.
- `-pedantic`: This tells the compiler to turn off GNU extensions for gcc.
- `-Wall`: This tells the compiler to give (almost) all warnings of potential problems.
- `-g`: This tells the compiler to add debugging information.
- `hello.c`: This is the source file.
- `-o hello`: This tells the compiler to produce the executable named `hello` instead of the default `a.out`.