

Compilation Instructions

For Go Solutions

To run the Go solutions, you'll need to modify your *GOPATH* environment variable. Add the path to the directory containing the *src* directory to your *GOPATH*.

Once that's done, you can run any of the Go solutions in this repository by typing

```
go run [path to the Go file containing the solution]
```

For example, if your current working directory is the directory containing the *src* directory:

```
go run src/go/p1/readers_writers.go
```

For C++ Solutions

I used *MinGW-w64* to compile all of my C++ solutions. I haven't compiled with other compilers, but I know for certain that *MinGW-w64* will compile them.

Assuming you're in the directory containing the *src* directory, the compilation commands I used for the six solutions are as follows:

```
g++ -Wall -pthread -std=c++17 -Isrc src/cpp/p1/readers_writers.cpp  
src/cpp/shared/parse.cpp -o read_write
```

```
g++ -Wall -pthread -std=c++17 -Isrc src/cpp/p2/fifo_barbershop.cpp  
src/cpp/shared/parse.cpp src/cpp/shared/semaphore.cpp -o fifo_barber
```

```
g++ -Wall -pthread -std=c++17 -Isrc src/cpp/p3/roller_coaster.cpp  
src/cpp/shared/parse.cpp src/cpp/shared/semaphore.cpp -o roller_coaster
```

```
g++ -Wall -pthread -std=c++17 -Isrc src/cpp/p4/search_insert_delete.cpp  
src/cpp/shared/parse.cpp -o search_insert_delete
```

```
g++ -Wall -pthread -std=c++17 -Isrc src/cpp/p5/faneuil_hall.cpp  
src/cpp/shared/parse.cpp src/cpp/shared/semaphore.cpp -o faneuil
```

```
g++ -Wall -pthread -std=c++17 -Isrc src/cpp/p6/sieve_of_eratosthenes.cpp  
src/cpp/shared/parse.cpp src/cpp/shared/semaphore.cpp -o sieve
```