

FIBONACCI
Testing Document

Jack Spence

TDQC – Cohort 5

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1.1 Testing Plans

The bulk of my testing procedures was a test script that ran my program with all the numbers between 0 and 300 and compared the results to known good results. Known good results came from <http://www.maths.surrey.ac.uk/hosted-sites/R.Knott/Fibonacci/fibtable.html>.

1.2 No ARGV[1]

```
skydev@skydev:~/TDQC-Projects/fibonacci$ ./fibonacci
Usage: ./fibonacci <0-300>
```

1.3 Invalid ARGS

```
skydev@skydev:~/TDQC-Projects/fibonacci$ ./fibonacci -1
Usage: ./fibonacci <0-300>
skydev@skydev:~/TDQC-Projects/fibonacci$ ./fibonacci 301
Usage: ./fibonacci <0-300>
skydev@skydev:~/TDQC-Projects/fibonacci$ ./fibonacci asdf
Usage: ./fibonacci <0-300>
```

1.4 Clean Make

```
skydev@skydev:~/TDQC-Projects/fibonacci$ make clean
rm -f ./fibonacci
skydev@skydev:~/TDQC-Projects/fibonacci$ make
cc -O1 -masm=intel -fno-asynchronous-unwind-tables -g -o fibonacci fibonacci.s
skydev@skydev:~/TDQC-Projects/fibonacci$ ./fibonacci 0
```

1.5 Listener Without Dispatcher

```
skydev@skydev:~/TDQC-Projects/relay$ ./bin/listener
Cannot connect to server.
skydev@skydev:~/TDQC-Projects/relay$
```

1.6 Working as intended

```
skydev@skydev:~/TDQC-Projects/fibonacci$ ./fibonacci 0
0x0
skydev@skydev:~/TDQC-Projects/fibonacci$ ./fibonacci 1
0x1
skydev@skydev:~/TDQC-Projects/fibonacci$ ./fibonacci 100
0x1333db76a7c594bfc3
skydev@skydev:~/TDQC-Projects/fibonacci$ ./fibonacci 300
0x8a4ba39e1a1741497bbbef460a25486ee575f510e921b33e2e10
```

1.7 Script results compared to known good

```
skydev@skydev:~/TDQC-Projects/fibonacci$ for x in $(seq 0 300); do ./fibonacci $x >> mytestfib; done;
skydev@skydev:~/TDQC-Projects/fibonacci$ diff -y mytestfib knowngoodfibs | grep \|
skydev@skydev:~/TDQC-Projects/fibonacci$ diff -b mytestfib knowngoodfibs
skydev@skydev:~/TDQC-Projects/fibonacci$
```