

Outputs for Project 3

Screenshots of pc_debug run:

```
kylecu@kylecu-VirtualBox:~/Documents/CUBoulder/ECE5813/Projects/ECEN5813_Project3/debug$ ./a.out
LED BLUE
-----Begin initial pattern test-----
Memory Region of initial pattern test:
Address: 0x55c9a92336d0    Data: 0x23
Address: 0x55c9a92336d1    Data: 0x40
Address: 0x55c9a92336d2    Data: 0x5D
Address: 0x55c9a92336d3    Data: 0x7A
Address: 0x55c9a92336d4    Data: 0x97
Address: 0x55c9a92336d5    Data: 0xB4
Address: 0x55c9a92336d6    Data: 0xD1
Address: 0x55c9a92336d7    Data: 0xEE
Address: 0x55c9a92336d8    Data: 0xB8
Address: 0x55c9a92336d9    Data: 0x28
Address: 0x55c9a92336da    Data: 0x45
Address: 0x55c9a92336db    Data: 0x62
Address: 0x55c9a92336dc    Data: 0x7F
Address: 0x55c9a92336dd    Data: 0x9C
Address: 0x55c9a92336de    Data: 0xB9
Address: 0x55c9a92336df    Data: 0xD6

-----Begin 0xFFEE test-----
Memory Region of 0xFFEE test:
Address: 0x55c9a92336d0    Data: 0x23
Address: 0x55c9a92336d1    Data: 0x40
Address: 0x55c9a92336d2    Data: 0x5D
Address: 0x55c9a92336d3    Data: 0x7A
Address: 0x55c9a92336d4    Data: 0x97
Address: 0x55c9a92336d5    Data: 0xB4
Address: 0x55c9a92336d6    Data: 0xD1
Address: 0x55c9a92336d7    Data: 0xEE
Address: 0x55c9a92336d8    Data: 0xB8
Address: 0x55c9a92336d9    Data: 0xEE
Address: 0x55c9a92336da    Data: 0xFF
Address: 0x55c9a92336db    Data: 0x62
Address: 0x55c9a92336dc    Data: 0x7F
Address: 0x55c9a92336dd    Data: 0x9C
Address: 0x55c9a92336de    Data: 0xB9
Address: 0x55c9a92336df    Data: 0xD6

Failure at Location:
Address: 0x55c9a92336d9    Data: 0xEE

Failure at Location:
Address: 0x55c9a92336da    Data: 0xFF
```

```
Failure at Location:
Address: 0x55c9a92336da    Data: 0xFF

-----Rewriting Pattern-----
Memory Region of pattern:
Address: 0x55c9a92336d0    Data: 0x23
Address: 0x55c9a92336d1    Data: 0x40
Address: 0x55c9a92336d2    Data: 0x5D
Address: 0x55c9a92336d3    Data: 0x7A
Address: 0x55c9a92336d4    Data: 0x97
Address: 0x55c9a92336d5    Data: 0xB4
Address: 0x55c9a92336d6    Data: 0xD1
Address: 0x55c9a92336d7    Data: 0xEE
Address: 0x55c9a92336d8    Data: 0xB8
Address: 0x55c9a92336d9    Data: 0x28
Address: 0x55c9a92336da    Data: 0x45
Address: 0x55c9a92336db    Data: 0x62
Address: 0x55c9a92336dc    Data: 0x7F
Address: 0x55c9a92336dd    Data: 0x9C
Address: 0x55c9a92336de    Data: 0xB9
Address: 0x55c9a92336df    Data: 0xD6

-----Inverting memory test-----
Address: 0x55c9a92336d0    Data: 0x23
Address: 0x55c9a92336d1    Data: 0x40
Address: 0x55c9a92336d2    Data: 0x5D
Address: 0x55c9a92336d3    Data: 0x7A
Address: 0x55c9a92336d4    Data: 0x68
Address: 0x55c9a92336d5    Data: 0x4B
Address: 0x55c9a92336d6    Data: 0x2E
Address: 0x55c9a92336d7    Data: 0x11
Address: 0x55c9a92336d8    Data: 0xB8
Address: 0x55c9a92336d9    Data: 0x28
Address: 0x55c9a92336da    Data: 0x45
Address: 0x55c9a92336db    Data: 0x62
Address: 0x55c9a92336dc    Data: 0x7F
Address: 0x55c9a92336dd    Data: 0x9C
Address: 0x55c9a92336de    Data: 0xB9
Address: 0x55c9a92336df    Data: 0xD6

Failure at Location:
Address: 0x55c9a92336d4    Data: 0x68

Failure at Location:
Address: 0x55c9a92336d5    Data: 0x4B

Failure at Location:
Address: 0x55c9a92336d6    Data: 0x2E

Failure at Location:
Address: 0x55c9a92336d7    Data: 0x11
```

```

Failure at Location:
Address: 0x55c9a92336d7    Data: 0x11

-----Uninverting 4 bytes test-----
Address: 0x55c9a92336d0    Data: 0x23
Address: 0x55c9a92336d1    Data: 0x40
Address: 0x55c9a92336d2    Data: 0x5D
Address: 0x55c9a92336d3    Data: 0x7A
Address: 0x55c9a92336d4    Data: 0x97
Address: 0x55c9a92336d5    Data: 0xB4
Address: 0x55c9a92336d6    Data: 0xD1
Address: 0x55c9a92336d7    Data: 0xEE
Address: 0x55c9a92336d8    Data: 0x0B
Address: 0x55c9a92336d9    Data: 0x28
Address: 0x55c9a92336da    Data: 0x45
Address: 0x55c9a92336db    Data: 0x62
Address: 0x55c9a92336dc    Data: 0x7F
Address: 0x55c9a92336dd    Data: 0x9C
Address: 0x55c9a92336de    Data: 0xB9
Address: 0x55c9a92336df    Data: 0xD6

LED GREEN

```

Screenshots of pc_run version:

```

kylecu@kylecu-VirtualBox:~/Documents/CUBoulder/ECE5813/Projects/ECEN5813_Project3/Debug$ ./a.out
LED BLUE
LED GREEN

```

Output from KL25Z fb_debug version:

-----Begin initial pattern test-----

Memory Region of initial pattern test:

```

Address: 0x1FFFF124    Data: 0x23
Address: 0x1FFFF125    Data: 0x40
Address: 0x1FFFF126    Data: 0x5D
Address: 0x1FFFF127    Data: 0x7A
Address: 0x1FFFF128    Data: 0x97
Address: 0x1FFFF129    Data: 0xB4
Address: 0x1FFFF12A    Data: 0xD1
Address: 0x1FFFF12B    Data: 0xEE
Address: 0x1FFFF12C    Data: 0x B
Address: 0x1FFFF12D    Data: 0x28

```

Address: 0x1FFFF12E Data: 0x45
Address: 0x1FFFF12F Data: 0x62
Address: 0x1FFFF130 Data: 0x7F
Address: 0x1FFFF131 Data: 0x9C
Address: 0x1FFFF132 Data: 0xB9
Address: 0x1FFFF133 Data: 0xD6

-----Begin 0xFFEE test-----

Memory Region of 0xFFEE test:

Address: 0x1FFFF124 Data: 0x23
Address: 0x1FFFF125 Data: 0x40
Address: 0x1FFFF126 Data: 0x5D
Address: 0x1FFFF127 Data: 0x7A
Address: 0x1FFFF128 Data: 0x97
Address: 0x1FFFF129 Data: 0xB4
Address: 0x1FFFF12A Data: 0xD1
Address: 0x1FFFF12B Data: 0xEE
Address: 0x1FFFF12C Data: 0x B
Address: 0x1FFFF12D Data: 0xEE
Address: 0x1FFFF12E Data: 0xFF
Address: 0x1FFFF12F Data: 0x62
Address: 0x1FFFF130 Data: 0x7F
Address: 0x1FFFF131 Data: 0x9C
Address: 0x1FFFF132 Data: 0xB9
Address: 0x1FFFF133 Data: 0xD6

Failure at Location:

Address: 0x1FFFF12D Data: 0xEE

Failure at Location:

Address: 0x1FFFF12E Data: 0xFF

-----Rewriting Pattern-----

Memory Region of pattern:

Address: 0x1FFFF124 Data: 0x23

Address: 0x1FFFF125 Data: 0x40

Address: 0x1FFFF126 Data: 0x5D

Address: 0x1FFFF127 Data: 0x7A

Address: 0x1FFFF128 Data: 0x97

Address: 0x1FFFF129 Data: 0xB4

Address: 0x1FFFF12A Data: 0xD1

Address: 0x1FFFF12B Data: 0xEE

Address: 0x1FFFF12C Data: 0x B

Address: 0x1FFFF12D Data: 0x28

Address: 0x1FFFF12E Data: 0x45

Address: 0x1FFFF12F Data: 0x62

Address: 0x1FFFF130 Data: 0x7F

Address: 0x1FFFF131 Data: 0x9C

Address: 0x1FFFF132 Data: 0xB9

Address: 0x1FFFF133 Data: 0xD6

-----Inverting memory test-----

Address: 0x1FFFF124 Data: 0x23

Address: 0x1FFFF125 Data: 0x40

Address: 0x1FFFF126 Data: 0x5D

Address: 0x1FFFF127 Data: 0x7A

Address: 0x1FFFF128 Data: 0x68

Address: 0x1FFFF129 Data: 0x4B

Address: 0x1FFFF12A Data: 0x2E
Address: 0x1FFFF12B Data: 0x11
Address: 0x1FFFF12C Data: 0x B
Address: 0x1FFFF12D Data: 0x28
Address: 0x1FFFF12E Data: 0x45
Address: 0x1FFFF12F Data: 0x62
Address: 0x1FFFF130 Data: 0x7F
Address: 0x1FFFF131 Data: 0x9C
Address: 0x1FFFF132 Data: 0xB9
Address: 0x1FFFF133 Data: 0xD6

Failure at Location:

Address: 0x1FFFF128 Data: 0x68

Failure at Location:

Address: 0x1FFFF129 Data: 0x4B

Failure at Location:

Address: 0x1FFFF12A Data: 0x2E

Failure at Location:

Address: 0x1FFFF12B Data: 0x11

-----Uninverting 4 bytes test-----

Address: 0x1FFFF124 Data: 0x23

Address: 0x1FFFF125 Data: 0x40

Address: 0x1FFFF126 Data: 0x5D

Address: 0x1FFFF127 Data: 0x7A

Address: 0x1FFFF128 Data: 0x97

Address: 0x1FFFF129 Data: 0xB4

Address: 0x1FFFF12A Data: 0xD1

Address: 0x1FFFF12B Data: 0xEE

Address: 0x1FFFF12C Data: 0x B

Address: 0x1FFFF12D Data: 0x28

Address: 0x1FFFF12E Data: 0x45

Address: 0x1FFFF12F Data: 0x62

Address: 0x1FFFF130 Data: 0x7F

Address: 0x1FFFF131 Data: 0x9C

Address: 0x1FFFF132 Data: 0xB9

Address: 0x1FFFF133 Data: 0xD6

FB_RUN does not have output since logger is turned off