

## 4. Exercises

Exercises from the book using [ssd.py](#):

```
$ python ./ssd.py -s 1 -B 3 -l 30 -n 2 -q
```

```
FTL (empty)
Block 0      1      2
Page 0000000000 111111111 2222222222
      0123456789 0123456789 0123456789
State iiiiiiiiii iiiiiiiiii iiiiiiiiii
Data
Live
```

```
cmd 0:: command(??) -> ??
```

```
FTL 7: 7
Block 0      1      2
Page 0000000000 111111111 2222222222
      0123456789 0123456789 0123456789
State EEEEEEEvEE iiiiiiiiii iiiiiiiiii
Data      u
Live      +
```

```
cmd 1:: command(??) -> ??
```

```
FTL 7: 7 19: 19
Block 0      1      2
Page 0000000000 111111111 2222222222
      0123456789 0123456789 0123456789
State EEEEEEEvEE EEEEEEEEv iiiiiiiiii
Data      u      M
Live      +      +
```

```
$ python ./ssd.py -s 1 -B 3 -l 30 -n 2 -C
```

```
FTL (empty)
Block 0      1      2
Page 0000000000 111111111 2222222222
      0123456789 0123456789 0123456789
State iiiiiiiiii iiiiiiiiii iiiiiiiiii
Data
Live
```

```
cmd 0:: write(7, u) -> success
cmd 1:: write(19, M) -> success
```

```
$ python ./ssd.py -s 1 -B 3 -l 30 -n 2 -C -T log
```

```
FTL (empty)
Block 0      1      2
Page 0000000000 111111111 2222222222
      0123456789 0123456789 0123456789
State iiiiiiiiii iiiiiiiiii iiiiiiiiii
Data
Live
```

```
cmd 0:: write(7, u) -> success
```

```
FTL 7: 0
Block 0      1      2
Page 0000000000 111111111 2222222222
      0123456789 0123456789 0123456789
State vEEEEEEEE iiiiiiiiii iiiiiiiiii
Data u
Live +
```

```
cmd 1:: write(19, M) -> success
```

```
FTL 7: 0 19: 1
Block 0      1      2
Page 0000000000 111111111 2222222222
      0123456789 0123456789 0123456789
State vvEEEEEEEE iiiiiiiiii iiiiiiiiii
Data uM
Live ++
```

```
$
```