Final Project - Test Document 2

This document contains screenshots of the execution of the 4 algorithms using N = 5 and the following reference string as inputs: 0.1234567890918273645

FIFO

Beginning

```
FRAME COUNT = 5
1 - Read reference string
2 - Generate reference string
3 - Display current reference string
4 - Simulate FIFO
6 - Simulate LRU
7 - Simulate LFU
Select option:
Enter reference string:
0 - Exit
1 - Read reference string
3 - Display current reference string
4 - Simulate FIFO
6 - Simulate LRU
7 - Simulate LFU
Select option: 4
Reference string | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 9 | 1 | 8 | 2 | 7 | 3 | 6 | 4 | 5 |
Physical frame 0 || 0 |
Physical frame 1 ||
Physical frame 2 ||
Physical frame 3 ||
Victim frames || |
Press ENTER to continue.
```

Middle

```
Press ENTER to continue.
Reference string | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 9 | 1 | 8 | 2 | 7 | 3 | 6 | 4 | 5 |
Physical frame 0 || 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 1 | 1 | 2 | 7 | 3 | 6 | 4 | 5 |
Physical frame 1 ||
Physical frame 2 ||
Physical frame 3 ||
Physical frame 4 ||
Press ENTER to continue.
Total page faults: 18
0 - Exit
1 - Read reference string
2 - Generate reference string
3 - Display current reference string
4 - Simulate FIFO
5 - Simulate OPT
6 - Simulate LRU
7 - Simulate LFU
```

OPT

Beginning

Middle

```
Press ENTER to continue.
Reference string | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 9 | 1 | 8 | 2 | 7 | 3 | 6 | 4 | 5 |
Physical frame 3 || | | | 3 | 3 | 3 | 3 | 8 |
Physical frame 4 || | | | 4 | 5 | 6 | 7 | 7 |
Page faults || F | F | F | F | F | F | F | F |
Victim frames
Press ENTER to continue.
Reference string | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 9 | 1 | 8 | 2 | 7 | 3 | 6 | 4 | 5 |
Physical frame 3 || | | | 3 | 3 | 3 | 3 | 8 | 8 |
Press ENTER to continue.
```

Press ENTER to continue.
Reference string 0 1 2 3 4 5 6 7 8 9 0 9 1 8 2 7 3 6 4 5
Physical frame 0 0 0 0 0 0 0 0 0 0
Physical frame 1 1 1 1 1 1 1 1 1
Physical frame 2 2 2 2 2 2 2 2 2
Physical frame 3 3 3 3 3 8 8 8
Physical frame 4 4 5 6 7 7 9 9 9 9 9 9 9 9
Page faults F F F F F F F F F
Victim frames 4 5 6 3 7 0 7 3 6 4
Press ENTER to continue.
Total page faults: 15
0 - Exit
1 - Read reference string
2 - Generate reference string
3 - Display current reference string
4 - Simulate FIFO
5 - Simulate OPT
6 - Simulate LRU
7 Cimpleto IETI

LRU

Beginning

Middle

Press ENTER to continue.
Reference string 0 1 2 3 4 5 6 7 8 9 0 9 1 8 2 7 3 6 4 5
Physical frame 0 0 0 0 0 0 5 5 5 5
Physical frame 1
Physical frame 2 2 2 2 2 2 7 7 7
Physical frame 3 3 3 3 3 8 8 8
Physical frame 4 4 4 4 4 4 9 9
Page faults F F F F F F F F F
Victim frames 0 1 2 3 4 5 6 7 0 9 1 8 2
Press ENTER to continue.
Total page faults: 18
0 - Exit
1 - Read reference string
2 - Generate reference string
3 - Display current reference string
4 - Simulate FIFO
5 - Simulate OPT
6 - Simulate LRU
7 - Simulate LFU

LFU

Beginning

```
0 - Exit
1 - Read reference string
2 - Generate reference string
3 - Display current reference string
4 - Simulate FIFO
5 - Simulate OPT
6 - Simulate LRU
7 - Simulate LRU
8 - Simulate LRU
9 - Simulate LRU
1 - S
```

Middle

Press ENTER to continue.
Reference string 0 1 2 3 4 5 6 7 8 9 0 9 1 8 2 7 3 6 4 5
Physical frame 0 0 0 0 0 0 5 6 7 8 9 0 0 0 0 7 3 6 4 5
Physical frame 1 1 1 1 1 1 1 1 1
Physical frame 2 2 2 2 2 2 2 2 2
Physical frame 3 3 3 3 3 3 3 3
Physical frame 4 4 4 4 4 4 4 4
Page faults F F F F F F F F F
Victim frames 0 5 6 7 8 9 1 2 3 4 0 7 3 6 4
Press ENTER to continue.
Total page faults: 20
0 - Exit
1 - Read reference string
2 - Generate reference string
3 - Display current reference string
4 - Simulate FIFO
5 - Simulate OPT
6 - Simulate LRU