William Kendall
CMSC 412
Demand Paging

Screen Shots Test 2:

FIFO:

```
                    kei@localhost:~/Documents/School/CMSC412/DemandPaging/bin/Debug        _  □  ×

 File  Edit  View  Search  Terminal  Help
Reference String (20):
0 1 2 3 4 5 6 7 8 9 0 9 1 8 2 7 3 6 4 5
Press Enter...


Demand Paging simulation menu

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

Selection: 4
Reference:      0 1 2 3 4 5 6 7 8 9 0 9 1 8 2 7 3 6 4 5
Page 0:         0 0 0 0 0 5 5 5 5 5 0 0 0 0 0 0 0 6 6 6
Page 1:           1 1 1 1 6 6 6 6 6 6 1 1 1 1 1 1 1 4 4
Page 2:             2 2 2 2 7 7 7 7 7 7 7 2 2 2 2 2 2 5
Page 3:               3 3 3 3 8 8 8 8 8 8 8 7 7 7 7 7
Page 4:                 4 4 4 4 9 9 9 9 9 9 9 3 3 3 3
Page fault:     0 1 2 3 4 5 6 7 8 9 0   1   2 7 3 6 4 5
Victim frames:          0 1 2 3 4 5   6   7 8 9 0 1 2
Press Enter...
```

OPT:

```
                  kei@localhost:~/Documents/School/CMSC412/DemandPaging/bin/Debug        _  □  ×

 File  Edit  View  Search  Terminal  Help
Page fault:      0 1 2 3 4 5 6 7 8 9 0   1   2 7 3 6 4 5
Victim frames:           0 1 2 3 4 5   6   7 8 9 0 1 2
Press Enter...


Demand Paging simulation menu

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

Selection: 5
Reference:       0 1 2 3 4 5 6 7 8 9 0 9 1 8 2 7 3 6 4 5
Page 0:          0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7 3 6 4 5
Page 1:          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Page 2:            2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Page 3:              3 3 3 3 3 8 8 8 8 8 8 8 8 8 8 8 8 8
Page 4:                4 5 6 7 7 9 9 9 9 9 9 9 9 9 9 9 9
Page fault:      0 1 2 3 4 5 6 7 8 9             7 3 6 4 5
Victim frames:           4 5 6 3 7               0 7 3 6 4
Press Enter...
```

LRU:

```
                  kei@localhost:~/Documents/School/CMSC412/DemandPaging/bin/Debug        _  □  ×

 File  Edit  View  Search  Terminal  Help
Page fault:      0 1 2 3 4 5 6 7 8 9             7 3 6 4 5
Victim frames:           4 5 6 3 7               0 7 3 6 4
Press Enter...


Demand Paging simulation menu

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

Selection: 6
Reference:       0 1 2 3 4 5 6 7 8 9 0 9 1 8 2 7 3 6 4 5
Page 0:          0 0 0 0 0 5 5 5 5 5 0 0 0 0 0 7 7 7 7 7
Page 1:          1 1 1 1 1 6 6 6 6 6 1 1 1 1 1 1 6 6 6
Page 2:            2 2 2 2 2 7 7 7 7 7 7 7 7 2 2 2 2 2 5
Page 3:              3 3 3 3 3 8 8 8 8 8 8 8 8 8 8 8 4 4
Page 4:                4 4 4 4 4 9 9 9 9 9 9 9 9 9 3 3 3 3
Page fault:      0 1 2 3 4 5 6 7 8 9 0   1   2 7 3 6 4 5
Victim frames:           0 1 2 3 4 5   6   7 0 9 1 8 2
Press Enter...
```

LFU:

```
                    kei@localhost:~/Documents/School/CMSC412/DemandPaging/bin/Debug        _   □   ✕

 File   Edit   View   Search   Terminal   Help
Page fault:       0 1 2 3 4 5 6 7 8 9 0   1   2 7 3 6 4 5
Victim frames:            0 1 2 3 4 5   6   7 0 9 1 8 2
Press Enter...


Demand Paging simulation menu

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

Selection: 7
Reference:        0 1 2 3 4 5 6 7 8 9 0 9 1 8 2 7 3 6 4 5
Page 0:           0 0 0 0 0 5 6 7 8 9 0 0 0 0 7 3 6 4 5
Page 1:             1 1 1 1 1 1 1 1 1 1 9 9 9 9 9 9 9 9 9
Page 2:               2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1 1
Page 3:                 3 3 3 3 3 3 3 3 3 3 8 8 8 8 8 8 8
Page 4:                   4 4 4 4 4 4 4 4 4 4 2 2 2 2 2 2
Page fault:       0 1 2 3 4 5 6 7 8 9 0 9 1 8 2 7 3 6 4 5
Victim frames:            0 5 6 7 8 9 1 2 3 4 0 7 3 6 4
Press Enter...
```