-ksh-4.1$ ./virtual_memory_lazik

Dr. George Lazik
Virtual address mapping:
----

1) Enter parameters

2) Map virtual address

3) Quit

Enter selection: 1

Enter main memory size (words): 2048

Enter page size (words/page): 1024

Enter replacement policy (0=LRU, 1=FIFO): 0

Enter selection: 2

Enter virtual memory address to access: 5000

*** Page fault!

*** VP 4 --> PF 0

Dr. George Lazik
Virtual address mapping:
----

1) Enter parameters

2) Map virtual address

3) Quit

Enter selection: 2

Enter virtual memory address to access: 2048

*** Page fault!

*** VP 4 --> PF 0

*** VP 2 --> PF 1

Dr. George Lazik
Virtual address mapping:
----

1) Enter parameters

2) Map virtual address

3) Quit

Enter selection: 2

Enter virtual memory address to access: 4509

*** Virtual address 4509 maps to physical address 413

*** VP 2 --> PF 1

*** VP 4 --> PF 0

Dr. George Lazik
Virtual address mapping:

----

1) Enter parameters

2) Map virtual address

3) Quit

Enter selection: 2

Enter virtual memory address to access: 7160

*** Page fault!

*** VP 4 --> PF 0

*** VP 6 --> PF 1

Dr. George Lazik
Virtual address mapping:

----

1) Enter parameters

2) Map virtual address

3) Quit

Enter selection: 1

Enter main memory size (words): 2048

Enter page size (words/page): 1024

Enter replacement policy (0=LRU, 1=FIFO): 1

Dr. George Lazik
Virtual address mapping:
----

1) Enter parameters

2) Map virtual address

3) Quit

Enter selection: 2

Enter virtual memory address to access: 5000

*** Page fault!

*** VP 4 --> PF 0

Dr. George Lazik
Virtual address mapping:
----

1) Enter parameters

2) Map virtual address

3) Quit

Enter selection: 2

Enter virtual memory address to access: 2048

*** Page fault!

*** VP 4 --> PF 0

*** VP 2 --> PF 1

Dr. George Lazik

Virtual address mapping:

----

1) Enter parameters

2) Map virtual address

3) Quit

Enter selection: 2

Enter virtual memory address to access: 4509

*** Virtual address 4509 maps to physical address 413

*** VP 4 --> PF 0

*** VP 2 --> PF 1

Dr. George Lazik

Virtual address mapping:

----

1) Enter parameters

2) Map virtual address

3) Quit

Enter selection: 2

Enter virtual memory address to access: 7160

*** Page fault!

*** VP 2 --> PF 1

*** VP 6 --> PF 0

Dr. George Lazik

Virtual address mapping:

----

1) Enter parameters

2) Map virtual address

3) Quit

Enter selection: 3

-ksh-4.1$