Documentation

Assignment 5:

PAGE TABLE:

int pg_table[VIRTUAL_ADDR_SPACE] // VIRTUAL_ADDR_SPACE = 64

Main Functions:

fifo_case() random_case() lru_case() nru_case() second_chance()

DATA Structures to maintain the queue:

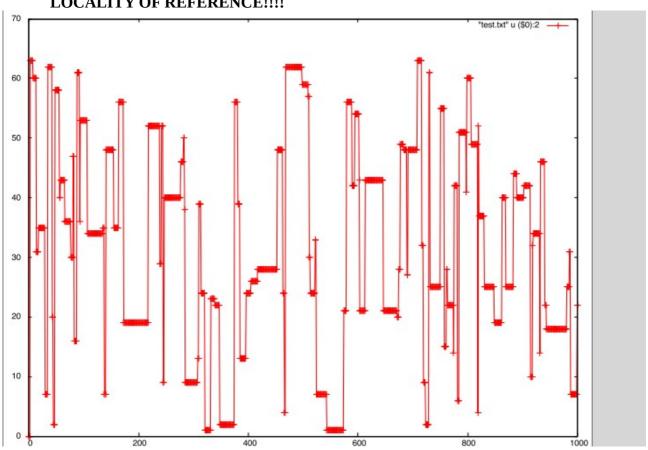
queue<int> pages_loaded; // for fifo list<int> lru_list; // for lru

// for random selection list<int> rand_list;

list<int> nru_list; // for NRU

//for second chance replacement algo vector<int> sec_vec;

LOCALITY OF REFERENCE!!!!



Obtained Statistics:

```
FIFO :
```

Random Case:

```
<---->
Memory References : 1000000
Page in : 132387
Page out : 103794
<---->
PG Frame
3
5
    7
   0
24
    5
36
    3
    1
37
    2
39
40
    6
46
```

LRU:

```
<----->
Memory References : 1000000
Page in : 110926
Page out : 88143
Page out :
<---->
PG
  Frame
3
    4
5
    5
    7
24
36
    0
37
    1
39
40
     6
46
     2
```

NRU:

```
<----->
Memory References :
             1000000
Page in : 110926
Page out : 88143
<----->
PG
   Frame
3
    4
5
    5
    7
24
36
    0
37
39
    1
40
    6
46
    2
```

Second chance:

```
<-----
Memory References : 1000000
Page in : 132387
Page out : 103794
<-----
PG
    Frame
     7
3
5
     0
24
     5
36
     3
     1
37
39
     2
40
     6
     4
46
```