

PES1201800410 sem V roll no 24 Prashanth A R

WEEK 10-11

## Week 10

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Applications Places System
Parrot Terminal
File Edit View Search Terminal Help
(base) [prashanth@parrot:~/Documents/semV/os/PES1201800410_Prashanth_A_R_WEEK10-11]
$ gcc PES1201800410_week_10.c -Wall
(base) [prashanth@parrot:~/Documents/semV/os/PES1201800410_Prashanth_A_R_WEEK10-11]
$ ./a.out
Enter the number of memory segments:4
Enter the Values:
Enter Partition Size:300
Enter Partition Size:100
Enter Partition Size:200
Enter Partition Size:400
Enter the number of processes to assign the memory:3
Enter the name of the process:P
Enter the size of the process: 80
Enter the name of the process:Q
Enter the size of the process: 120
Enter the name of the process:R
Enter the size of the process: 270
Partition no  Partition_size  Partition Status  Fragment
0             100           allocated(P)      20
1             200           allocated(Q)      80
2             300           allocated(R)      30
3             400           free
(base) [prashanth@parrot:~/Documents/semV/os/PES1201800410_Prashanth_A_R_WEEK10-11]
$
```

## Week 11

```
Applications Places System
Parrot Terminal
File Edit View Search Terminal Help
(base) [prashanth@parrot:~/Documents/semV/os/PES1201800410_Prashanth_A_R_WEEK10-11]
$ gcc PES1201800410_week_11.c -Wall
(base) [prashanth@parrot:~/Documents/semV/os/PES1201800410_Prashanth_A_R_WEEK10-11]
$ ./a.out
The length of the reference String --20
Enter the reference string -- 7 0 1 2 0 3 0 4 2 3 0 3 2 1 2 0 1 7 0 1
Enter the number of frames --3
The Page Replacement Process is --
7 -1 -1 PF No.-- 1
7 0 -1 PF No.-- 2
7 0 1 PF No.-- 3
2 0 1 PF No.-- 4
2 0 3 PF No.-- 5
2 0 3
4 0 3 PF No.-- 6
4 0 2 PF No.-- 7
4 3 2 PF No.-- 8
0 3 2 PF No.-- 9
0 3 2
1 3 2 PF No.-- 10
1 3 2
1 0 2 PF No.-- 11
1 0 2
1 0 7 PF No.-- 12
1 0 7
1 0 7
The number of Page faults using LRU is 12
(base) [prashanth@parrot:~/Documents/semV/os/PES1201800410_Prashanth_A_R_WEEK10-11]
$
```

**PROGRAM 2: Write a C Program to implement LRU algorithm**

Define a reference string and number of frames for the input to your program as shown below and determine the total number of page faults

Your output can slightly vary depending upon your implementation and the manner in which you take input values

**INPUT**

Enter the length of reference string -- 20  
Enter the reference string -- 7 0 1 2 0 3 0 4 2 3 0 3 2 1 2 0 1 7 0 1  
Enter the number of frames -- 3

**OUTPUT**

The Page Replacement process is --  
7 -1 -1 PF No. -- 1  
7 0 -1 PF No. -- 2  
7 0 1 PF No. -- 3  
2 0 1 PF No. -- 4  
2 0 3 PF No. -- 5  
2 0 3  
4 0 3 PF No. -- 6  
4 0 2 PF No. -- 7  
4 3 2 PF No. -- 8  
0 3 2 PF No. -- 9  
0 3 2  
1 3 2 PF No. -- 10  
1 3 2  
1 0 2 PF No. -- 11  
1 0 2  
1 0 7 PF No. -- 12  
1 0 7  
1 0 7