**Assignment 4**

**Exercise 4 – Chapter 3**

Consider a swapping system in which memory consists of the following hole sizes in memory order: 10 MB, 4 MB, 20 MB, 18 MB, 7 MB, 9 MB, 12 MB, and 15 MB. Which hole is taken for successive segment requests of

(a) 12 MB

(b) 10 MB

(c) 9 MB

for first fit? Now repeat the question for best fit, worst fit, and next fit.

**Exercise 36 - Chapter 3**

A computer has four page frames. The time of loading, time of last access, and the *R* and *M* bits for each page are as shown below (the times are in clock ticks):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Page** | **Loaded** | **Last ref.** | **R** | **M** |
| 0 | 126 | 280 | 1 | 0 |
| 1 | 230 | 265 | 0 | 1 |
| 2 | 140 | 270 | 0 | 0 |
| 3 | 110 | 285 | 1 | 1 |

(a) Which page will NRU replace?

(b) Which page will FIFO replace?

(c) Which page will LRU replace?

(d) Which page will second chance replace?