Assignment 11

Due on 29/11-16: 23:59 IST.

1. A page replacement algorithm is implemented when a page fault occurs. a. Yes, because it solves the problem of the page fault. b. Yes, because it reduces the number of page faults. c. No, because it does not address the page fault issue. d. None of the above.

2. An optimal page replacement algorithm is — a. LRU b. FIFO c. OPR d. None of the above

3. The page replacement algorithm decides on the basis of — a. The page frame b. The page number c. The page reference d. All of the above

4. The algorithm that is most appropriate for a system with a large number of page faults is — a. FIFO b. LRU c. OPR d. None of the above

5. Which of the following is not a characteristic of a valid page replacement algorithm? a. It should minimize the number of page faults b. It should not create page faults c. It should be able to handle any system d. None of the above

6. Which of the following statements is/are true about page replacement algorithms? a. FIFO is a good choice for systems with high inter-reference locality. b. LRU is a good choice for systems with low inter-reference locality. c. OPR is a good choice for systems with high inter-reference locality. d. All of the above

7. A page replacement algorithm is used when a page is not in the frame. a. True b. False

8. A page fault occurs when — a. A page is not found in the main memory b. A page is found in the main memory c. A page is not allocated to the process d. None of the above

9. A page is allocated to a process when — a. It is requested by the user b. It is found in the main memory c. It is not found in the main memory d. None of the above

10. Which of the following statements is correct about replacement policies? a. A true replacement policy only considers the pages in main memory as candidates for replacement regardless of which pages were never cached in main memory pages b. A replacement policy that uses the least recently used policy is the best choice for all systems c. A replacement policy that uses a fixed size buffer is not suitable for systems with variable memory requirements d. A modified replacement policy is superior to the original and suitable for systems with commonly used pages