

- 700
- 0FF

Answer:

- 9EF - 0EF
- 111 - 211
- 700 - D00
- 0FF - EFF

- 9.4 Consider the following page-replacement algorithms. Rank these algorithms on a five-point scale from "bad" to "perfect" according to their page-fault rate. Separate those algorithms that suffer from Belady's anomaly from those that do not.
- LRU replacement
 - FIFO replacement
 - Optimal replacement
 - Second-chance replacement

Answer:

| Rank | Algorithm | Suffer from Belady's anomaly |
|------|---------------|------------------------------|
| 1 | Optimal | no |
| 2 | LRU | no |
| 3 | Second-chance | yes |
| 4 | FIFO | yes |

- 9.5 Discuss the hardware support required to support demand paging.

Answer:

For every memory-access operation, the page table needs to be consulted to check whether the corresponding page is resident or not and whether the program has read or write privileges for accessing the page. These checks have to be performed in hardware. A TLB could serve as a cache and improve the performance of the lookup operation.

- 9.6 An operating system supports a paged virtual memory, using a central processor with a cycle time of 1 microsecond. It costs an additional 1 microsecond to access a page other than the current one. Pages have 1000 words, and the paging device is a drum that rotates at 3000 revolutions per minute and transfers 1 million words per second. The following statistical measurements were obtained from the system:

- 1 percent of all instructions executed accessed a page other than the current page.
- Of the instructions that accessed another page, 80 percent accessed a page already in memory.

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Patrick Vollmar



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