Sistemas Operacionais

Exercício sobre algoritmos de substituição

1. Continue a alocação de páginas nas figuras abaixo para cada uma das estratégias citadas. Também preencha o campo com o número de falta de páginas em cada uma das estratégias para a sequência de páginas citada.

Sequência de páginas a serem alocadas na memória principal:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 0 | 1 | 3 | 1 | 5 | 4 | 5 | 1 | 4 | 0 | 2 | 1 | 2 | 5 | 4 | 0 | 2 | 3 | 2 |

1. Alocação na memória principal para a estratégia FIFO:

...

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 3 | 3 |
|  | 0 | 0 | 0 | 0 | 5 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 5 | 5 | 5 | 2 | 2 | 2 |
|  |  | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| F | F | F | F |  | F | F |  | F |  | F | F | F |  | F | F | F | F | F |  |

Número de falta de páginas para a estratégia FIFO: \_\_\_\_15\_\_\_

1. Alocação na memória principal para a estratégia OPT:

...

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 2 | 2 | 3 | 3 | 5 | 5 | 5 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 0 | 0 | 0 | 0 | 4 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 1 | 1 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| F | F | F | F |  | F | F |  |  |  |  |  |  |  |  |  |  |  |  |  |

Número de falta de páginas para a estratégia OPT: \_\_\_\_\_\_\_

1. Alocação na memória principal para a estratégia LRU:

...

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | 0 | 0 | 0 | 5 | 5 | 5 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 1 | 1 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| F | F | F | F |  | F | F |  |  |  |  |  |  |  |  |  |  |  |  |  |

Pilha:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 0 | 1 | 3 | 1 | 5 | 4 | 5 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 2 | 0 | 1 | 3 | 1 | 5 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 2 | 0 | 0 | 3 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |

Número de falta de páginas para a estratégia LRU: \_\_\_\_\_\_\_