Put your answers to Problem 6 on this sheet. If you make a mistake you may ask for another copy of this sheet.

6a) FIFO

| page reference | 1 | 2 | 3 | 4 | 1 | 5 | 1 | 2 | 1 | 3 | 1 | 5 | 1 | 2 | 1 | 3 | 4 | 1 | 3 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| in memory |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| in memory |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| in memory |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Number of page faults $=$

6b) LRU

| page reference | 1 | 2 | 3 | 4 | 1 | 5 | 1 | 2 | 1 | 3 | 1 | 5 | 1 | 2 | 1 | 3 | 4 | 1 | 3 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| in memory |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| in memory |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| in memory |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Number of page faults $=$

6c) Optimal

| page reference | 1 | 2 | 3 | 4 | 1 | 5 | 1 | 2 | 1 | 3 | 1 | 5 | 1 | 2 | 1 | 3 | 4 | 1 | 3 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| in memory |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| in memory |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| in memory |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Number of page faults =

6d) Second Chance

| page reference | 1 | 2 | 3 | 4 | 1 | 5 | 1 | 2 | 1 | 3 | 1 | 5 | 1 | 2 | 1 | 3 | 4 | 1 | 3 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| in memory |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| in memory |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| in memory |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Number of page faults $=$

