Exercise 9.1: Cache Analysis (Points: 4)

Perform a must as well as a may analysis to derive properties of the cache contents on the following program. Assume an initially empty 4-way fully-associative cache architecture with an LRU replacement policy.

![Diagram of the program flow]

1. Read a;
2. Read b;
3. Read a;
4. Read c;
5. Read d;
6. Read e;
7. Read b;

Exit