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## Lab 4 Report

### Summary (10pts):

I learned about the differences and complexities of the three different page replacement algorithms we talked about in class. The optimal algorithm was much more difficult to implement opposed to the FIFO and LRU algorithms. I would expect this to be true in a real-world situation as well, especially since we don't know the future usage of page accesses.

I also learned to always initialize variables at the beginning of a function (seg faults). The main thing I learned from this lab is that the optimal algorithm will be slightly better than the least recently used algorithm. This is because the optimal algorithm is predictive (we have future page access data available), and the LRU algorithm only uses currently known data about the access times of pages.

### Number of page faults:

Algo/Access Seq.	Random	Sequential	LR
FIFO	8746	10000	887
LRU	8749	10000	878
OPT	8749	10000	877
CUST	8749	10000	877