Program 4

Extra Credit 2 Explanation

Colin Weil

For the extra credit 2 I modified my LRU code. I switched my LRU to become MRU for a couple of reasons. I was thinking that I could keep track of all the numbers and how many times they occur and to get replace the page with the least occurrences. This would be good if some pages had a higher chance of being in the vector but usually that is not the case. Then I thought that if the numbers are random then the chances of the same number being in a row are low, so I thought Most Recent Algorithm suit the dataset well. I am betting on the dataset that you use in the testing to be random for my algorithm to be fast.

To change LRU to MRU, I had to change 3 lines of code when the page is not in the current pages. These three lines of code used to remove the front element of the vector (which acts as queue) and then add the new element to the back. Instead of the vector acting as a queue, I know make it act as a stack so that the code removes the page at the top of the stack and adds the new page to the top.