Run #1:

csserver:/home/mr56/CS470/prog2 > main

Enter an integer value for the reference string length: 10000
Enter number of pages: 10
Enter a decimal value for the probability that the next page called will be the current page.  s = .95
Enter a decimal value for the probability that the next page will be adjacent to the current page.  o = .95
Enter the number of possible pages: 1024

There were 178 FIFO page faults.

There were 173 LRU page faults.

There were 171 Optimal page faults.

There were 454 LFU page faults.

All run with s = 0.95 and o = 0.95
Run with a reference string length of 10000 and 10 frames.
Run #2:

csserver:/home/mr56/CS470/prog2 > main

Enter an integer value for the reference string length: 10000
Enter number of pages: 10
Enter a decimal value for the probability that the next page called will be the current page.  $s = .95$
Enter a decimal value for the probability that the next page will be adjacent to the current page.  $o = .8$
Enter the number of possible pages: 1024

There were 320 FIFO page faults.
There were 320 LRU page faults.
There were 297 Optimal page faults.
There were 483 LFU page faults.

All run with $s = 0.95$ and $o = 0.8$
Run with a reference string length of 10000 and 10 frames.

Run #3:

csserver:/home/mr56/CS470/prog2 > main

Enter an integer value for the reference string length: 10000
Enter number of pages: 10
Enter a decimal value for the probability that the next page called will be the current page.  $s = .8$
Enter a decimal value for the probability that the next page will be adjacent to the current page.  $o = .95$
Enter the number of possible pages: 1024

There were 638 FIFO page faults.
There were 632 LRU page faults.
There were 618 Optimal page faults.
There were 1813 LFU page faults.

All run with $s = 0.8$ and $o = 0.95$
Run with a reference string length of 10000 and 10 frames.
• Run #4:

    csserver:/home/mr56/CS470/prog2 > main

    Enter an integer value for the reference string length: 10000
    Enter number of pages: 10
    Enter a decimal value for the probability that the next page called will be the current page.  s = .8
    Enter a decimal value for the probability that the next page will be adjacent to the current page.  o = .8
    Enter the number of possible pages: 1024

    There were 1126 FIFO page faults.

    There were 1125 LRU page faults.

    There were 1046 Optimal page faults.

    There were 1848 LFU page faults.

    All run with s = 0.8 and o = 0.8
    Run with a reference string length of 10000 and 10 frames.

• Run #5:

    csserver:/home/mr56/CS470/prog2 > main

    Enter an integer value for the reference string length: 10000
    Enter number of pages: 50
    Enter a decimal value for the probability that the next page called will be the current page.  s = .95
    Enter a decimal value for the probability that the next page will be adjacent to the current page.  o = .95
    Enter the number of possible pages: 1024

    There were 170 FIFO page faults.

    There were 170 LRU page faults.

    There were 164 Optimal page faults.

    There were 268 LFU page faults.

    All run with s = 0.95 and o = 0.95
    Run with a reference string length of 10000 and 50 frames.
- Run #6:

  csserver:/home/mr56/CS470/prog2 > main

  Enter an integer value for the reference string length: 10000
  Enter number of pages: 50
  Enter a decimal value for the probability that the next page called will be the current page.  \( s = .95 \)
  Enter a decimal value for the probability that the next page will be adjacent to the current page.  \( o = .8 \)
  Enter the number of possible pages: 1024

  There were 306 FIFO page faults.
  There were 306 LRU page faults.
  There were 271 Optimal page faults.
  There were 385 LFU page faults.

  All run with \( s = 0.95 \) and \( o = 0.8 \)
  Run with a reference string length of 10000 and 50 frames.

- Run #7:

  csserver:/home/mr56/CS470/prog2 > main

  Enter an integer value for the reference string length: 10000
  Enter number of pages: 50
  Enter a decimal value for the probability that the next page called will be the current page.  \( s = .8 \)
  Enter a decimal value for the probability that the next page will be adjacent to the current page.  \( o = .95 \)
  Enter the number of possible pages: 1024

  There were 621 FIFO page faults.
  There were 621 LRU page faults.
  There were 536 Optimal page faults.
  There were 1583 LFU page faults.

  All run with \( s = 0.8 \) and \( o = 0.95 \)
  Run with a reference string length of 10000 and 50 frames.
• Run #8:

csserver:/home/mr56/CS470/prog2 > main

Enter an integer value for the reference string length: 10000
Enter number of pages: 50
Enter a decimal value for the probability that the next page called will be the
   current page.  s = .8
Enter a decimal value for the probability that the next page will be adjacent to the
   current page.  o = .8
Enter the number of possible pages: 1024

There were 1079 FIFO page faults.
There were 1077 LRU page faults.
There were 871 Optimal page faults.
There were 1678 LFU page faults.

All run with s = 0.8 and o = 0.8
Run with a reference string length of 10000 and 50 frames.

• Run #9:

csserver:/home/mr56/CS470/prog2 > main

Enter an integer value for the reference string length: 10000
Enter number of pages: 100
Enter a decimal value for the probability that the next page called will be the
   current page.  s = .95
Enter a decimal value for the probability that the next page will be adjacent to the
   current page.  o = .95
Enter the number of possible pages: 1024

There were 164 FIFO page faults.
There were 164 LRU page faults.
There were 164 Optimal page faults.
There were 195 LFU page faults.

All run with s = 0.95 and o = 0.95
Run with a reference string length of 10000 and 100 frames.
- Run #10:

```bash
csserver:/home/mr56/CS470/prog2 > main
```
Enter an integer value for the reference string length: 10000
Enter number of pages: 100
Enter a decimal value for the probability that the next page called will be the current page. \( s = .95 \)
Enter a decimal value for the probability that the next page will be adjacent to the current page. \( o = .8 \)
Enter the number of possible pages: 1024

There were 294 FIFO page faults.

There were 292 LRU page faults.

There were 271 Optimal page faults.

There were 334 LFU page faults.

All run with \( s = 0.95 \) and \( o = 0.8 \)
Run with a reference string length of 10000 and 100 frames.

- Run #11:

```bash
csserver:/home/mr56/CS470/prog2 > main
```
Enter an integer value for the reference string length: 10000
Enter number of pages: 100
Enter a decimal value for the probability that the next page called will be the current page. \( s = .8 \)
Enter a decimal value for the probability that the next page will be adjacent to the current page. \( o = .95 \)
Enter the number of possible pages: 1024

There were 602 FIFO page faults.

There were 602 LRU page faults.

There were 510 Optimal page faults.

There were 1344 LFU page faults.

All run with \( s = 0.8 \) and \( o = 0.95 \)
Run with a reference string length of 10000 and 100 frames.
Run #12:

csserver:/home/mr56/CS470/prog2 > main

Enter an integer value for the reference string length: 10000
Enter number of pages: 100
Enter a decimal value for the probability that the next page called will be the current page.  $s = .8$
Enter a decimal value for the probability that the next page will be adjacent to the current page.  $o = .8$
Enter the number of possible pages: 1024

There were 1013 FIFO page faults.

There were 1020 LRU page faults.

There were 775 Optimal page faults.

There were 1510 LFU page faults.

All run with $s = 0.8$ and $o = 0.8$
Run with a reference string length of 10000 and 100 frames.