```
13 void first_in_first_out(){
14   /* Your code for FIFO algorithm here */
15   int pageSelect = 0;
16   int compareTo = 0;
17
18   for (int y = 0; y < 101; y++)
19       {
20       if (page[y].ArrivalTime > compareTo){ //define last to arrive to compare
   against
21       compareTo = page[y].ArrivalTime;
22       }
23   }
24
25   for (int i = 0; i < 101; i++) {
26   if(page[i].ArrivalTime != 0){ //excludes pages that dont exist
27         if (page[i].ArrivalTime <= compareTo){  // reduces compareTo until the
   lowest arrivaltime is defined, aka first in.
28                 compareTo = page[i].ArrivalTime;
29                 pageSelect = page[i].Id;
30         }
31 }
32 }
33 printf("Page selected: %d, Loaded at time %d, Last Refered at time %d, Rbit %d, Mbit
   %d.\n\n", page[pageSelect].Id, page[pageSelect].ArrivalTime,
   page[pageSelect].LastRefTime, page[pageSelect].Rbit, page[pageSelect].Mbit);
34
35 }
```

```
38 void least_recently_used(){
39   /* Your code for LRU algorithm here */
40   int pageSelect = 0;
41   int compareTo = 0;
42
43   for (int y = 0; y < 101; y++)
44       {
45       if (page[y].LastRefTime > compareTo){ //define last to be referenced to
   compare against
46       compareTo = page[y].LastRefTime;
47       }
48   }
49
50   for (int i = 0; i < 101; i++) {
51   if(page[i].ArrivalTime != 0){ //excludes pages that dont exist
52         if (page[i].LastRefTime <= compareTo){  // reduces compareTo until the
   lowest reference time is defined, aka last referenced.
53                 compareTo = page[i].LastRefTime;
54                 pageSelect = page[i].Id;
55         }
56 }
57 }
58 printf("Page selected: %d, Loaded at time %d, Last Refered at time %d, Rbit %d, Mbit
   %d.\n", page[pageSelect].Id, page[pageSelect].ArrivalTime,
   page[pageSelect].LastRefTime, page[pageSelect].Rbit, page[pageSelect].Mbit);
59
60 }
```

```
erikvs@erikvs-Aspire-V3-571:~/labs/lab12$ ./pra
Page    Arrival LastRef Rbit    Mbit
0       126     280     1       0
1       230     265     0       1
2       235     270     0       0
3       110     285     1       1
4       115     275     1       0
5       169     290     0       0
6       112     300     0       1
7       220     295     1       0
8       119     276     0       1
9       222     281     1       1
10      215     283     0       0
11      200     295     0       1
12      150     266     1       1
13      113     277     0       0
14      120     278     1       0
15      222     299     0       0
First-in-First-out...
Page selected: 3, Loaded at time 110, Last Refered at time 285, R
bit 1, Mbit 1.

Least-Recently-Used...
Page selected: 1, Loaded at time 230, Last Refered at time 265, R
bit 0, Mbit 1.
```