

# FIFO

Safari File Edit View History Bookmarks Window Help

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main.c

Run

```
1 #include<stdio.h>
2 int main()
3 {
4     int incomingStream[] = {4 , 1 , 2 , 4 , 3, 2 , 1, 5};
5     int pageFaults = 0;
6     int frames = 3;
7     int m, n, s, pages;
8     pages = sizeof(incomingStream)/sizeof(incomingStream[0]);
9     printf(" Incoming \ t Frame 1 \ t Frame 2 \ t Frame 3 ");
10    int temp[ frames ];
11    for(m = 0; m < frames; m++)
12    {
13        temp[m] = -1;
14    }
15    for(m = 0; m < pages; m++)
16    {
17        s = 0;
18        for(n = 0; n < frames; n++)
19        {
20            if(incomingStream[m] == temp[n])
21            {
22                s++;
23                pageFaults--;
24            }
25        }
26        pageFaults++;
27        if((pageFaults <= frames) && (s == 0))
```

Output

Clear

```
/tmp/j4RrX03cfU.o
Incoming  t Frame 1  t Frame 2  t Frame 3
4         4         -         -
1         4         1         -
2         4         1         2
4         4         1         2
3         3         1         2
2         3         1         2
1         3         1         2
5         3         5         2
Total Page Faults: 5
```

macOS dock with various application icons.

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```
21 {
22     s++;
23     pageFaults--;
24 }
25 }
26 pageFaults++;
27 if((pageFaults <= frames) && (s == 0))
28 {
29     temp[m] = incomingStream[m];
30 }
31 else if(s == 0)
32 {
33     temp[(pageFaults - 1) % frames] = incomingStream[m];
34 }
35 printf("\n");
36 printf("%d\t\t\t", incomingStream[m]);
37 for(n = 0; n < frames; n++)
38 {
39     if(temp[n] != -1)
40         printf(" %d\t\t\t", temp[n]);
41     else
42         printf(" - \t\t\t");
43 }
44 }
45 printf("\nTotal Page Faults:\t%d\n", pageFaults);
46 return 0;
47 }
```

Output

Clear

```
/tmp/j4RrX03cfU.o
Incoming  t Frame 1  t Frame 2  t Frame 3
4         4         -         -
1         4         1         -
2         4         1         2
4         4         1         2
3         3         1         2
2         3         1         2
1         3         1         2
5         3         5         2
Total Page Faults: 5
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