

(globals)

Project C < prodconos.c x fifoos.c x lruos.c x optimalos.c x seqfilallocos.c x

```
1 #include <stdio.h>
2 int main()
3 {
4     int referenceString[10], pageFaults = 0, m, n, s, pages, frames;
5     printf("\nEnter the number of Pages:\t");
6     scanf("%d", &pages);
7     printf("\nEnter reference string values:\n");
8     for( m = 0; m < pages; m++)
9     {
10         printf("Value No. [%d]:\t", m + 1);
11         scanf("%d", &referenceString[m]);
12     }
13     printf("\n What are the total number of frames:\t");
14     {
15         scanf("%d", &frames);
16     }
17     int temp[frames];
18     for(m = 0; m < frames; m++)
19     {
20         temp[m] = -1;
21     }
22     for(m = 0; m < pages; m++)
23     {
24         s = 0;
25         for(n = 0; n < frames; n++)
26         {
27             if(referenceString[m] == temp[n])
28             {
29                 s++;
30                 pageFaults--;
```

```
31     }
32 }
33 pageFaults++;
34 if((pageFaults <= frames) && (s == 0))
35 {
36     temp[m] = referenceString[m];
37 }
38 else if(s == 0)
39 {
40     temp[(pageFaults - 1) % frames] = referenceString[m];
41 }
42 printf("\n");
43 for(n = 0; n < frames; n++)
44 {
45     printf("%d\t", temp[n]);
46 }
47 }
48 printf("\nTotal Page Faults:\t%d\n", pageFaults);
49 return 0;
50 }
```

Enter the number of Pages: 8

Enter reference string values:

Value No. [1]: 6

Value No. [2]: 8

Value No. [3]: 4

Value No. [4]: 3

Value No. [5]: 1

Value No. [6]: 9

Value No. [7]: 2

Value No. [8]: 7

What are the total number of frames: 4

6	-1	-1	-1
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6	8	-1	-1
---	---	----	----

6	8	4	-1
---	---	---	----

6	8	4	3
---	---	---	---

1	8	4	3
---	---	---	---

1	9	4	3
---	---	---	---

1	9	2	3
---	---	---	---

1	9	2	7
---	---	---	---

Total Page Faults: 8

Process exited after 19.49 seconds with return value 0

Press any key to continue . . .