

```
9 #include<stdio.h>
10 int findLRU(int time[], int n){
11     int i, minimum = time[0], pos = 0;
12     for(i = 1; i < n; ++i){
13         if(time[i] < minimum){
14             minimum = time[i];
15             pos = i;
16         }
17     }
18     return pos;
19 }
20 int main()
21 {
22     int no_of_frames, no_of_pages, frames[10], pages[30], counter = 0, time[10], flag1, flag2, i, j, pos, faults = 0;
23     printf("Enter number of frames: ");
24     scanf("%d", &no_of_frames);
25     printf("Enter number of pages: ");
26     scanf("%d", &no_of_pages);
27     printf("Enter reference string: ");
28     for(i = 0; i < no_of_pages; ++i){
29         scanf("%d", &pages[i]);
30     }
31     for(i = 0; i < no_of_frames; ++i){
32         frames[i] = -1;
33     }
34     for(i = 0; i < no_of_pages; ++i){
35         flag1 = flag2 = 0;
36         for(j = 0; j < no_of_frames; ++j){
37             if(frames[j] == pages[i]){
38                 counter++;
39                 time[j] = counter;
40                 flag1 = flag2 = 1;
41                 break;
```

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LRU paging

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main.c

```
37 if(frames[j] == pages[i]){
38 counter++;
39 time[j] = counter;
40 flag1 = flag2 = 1;
41 break;
42 }
43 }
44 if(flag1 == 0){
45 for(j = 0; j < no_of_frames; ++j){if(frames[j] == -1){
46 counter++;
47 faults++;
48 frames[j] = pages[i];
49 time[j] = counter;
50 flag2 = 1;
51 break;
52 }
53 }
54 }
55 if(flag2 == 0){
56 pos = findLRU(time, no_of_frames);
57 counter++;
58 faults++;
59 frames[pos] = pages[i];
60 time[pos] = counter;
61 }
62 printf("\n");
63 for(j = 0; j < no_of_frames; ++j){
64 printf("%d\t", frames[j]);
65 }
66 }
67 printf("\n\nTotal Page Faults = %d", faults);return 0;
68 }
69 }
```

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Language C

main.c

```
37 if(frames[j] == pages[i]){
38 counter++;
39 time[j] = counter;
40 flag1 = flag2 = 1;
41 break;
42 }
43 }
44 if(flag1 == 0){
45 for(j = 0; j < no_of_frames; ++j){if(frames[j] == -1){
```

input

```
Enter number of frames: 3
Enter number of pages: 3
Enter reference string: 1 2 4 5

1      -1      -1
1       2      -1
1       2       4

Total Page Faults = 3

...Program finished with exit code 0
Press ENTER to exit console.
```