

Online C Compiler

Deadlock - Edit PDF

Untitled spreadsheet - G...

192221064/OPERATING-...

FCFS Disk Scheduling Alg...

Online C Compiler

sabari8883/operatingsyst...

Programiz

C Online Compiler

Interactive C Course

main.c

Run

Output

Clear

```
1 #include<stdio.h>
2 int main()
3 {
4     int m, n, position, k, l;
5     int a = 0, b = 0, page_fault = 0;
6
7     int total_frames = 3;
8     int frames[total_frames];
9     int temp[total_frames];
10    int pages[] = {1,2,3,2,1,5,2,1,6,2,5,6,3,1,3,6,1,2,4,3};
11    int total_pages = sizeof(pages)/sizeof(pages[0]);
12
13    for(m = 0; m < total_frames; m++){
14        frames[m] = -1;
15    }
16
17    for(n = 0; n < total_pages; n++)
18    {
19        printf("%d: ", pages[n]);
20        a = 0, b = 0;
21        for(m = 0; m < total_frames; m++)
22        {
23            if(frames[m] == pages[n])
24            {
25                a = 1;
26                b = 1;
27                break;
28            }
29        }
30    }
```

```
/tmp/Tbebztuce.o
1: 1    -1  -1
2: 1    2   -1
3: 1    2   3
2: 1    2   3
1: 1    2   3
5: 1    2   5
2: 1    2   5
1: 1    2   5
6: 1    2   6
2: 1    2   6
5: 5    2   6
6: 5    2   6
3: 5    3   6
1: 1    3   6
3: 1    3   6
6: 1    3   6
1: 1    3   6
2: 1    2   6
4: 1    2   4
3: 3    2   4

Total Number of Page Faults:    11
```

main.c

```

38         page_fault++;
39         break;
40     }
41 }
42 }
43 if(b == 0)
44 {
45     for(m = 0; m < total_frames; m++)
46     {
47         temp[m] = 0;
48     }
49     for(k = n - 1, l = 1; l <= total_frames - 1; l++, k--)
50     {
51         for(m = 0; m < total_frames; m++)
52         {
53             if(frames[m] == pages[k])
54             {
55                 temp[m] = 1;
56             }
57         }
58     }
59     for(m = 0; m < total_frames; m++)
60     {
61         if(temp[m] == 0)
62             position = m;
63     }
64     frames[position] = pages[n];
                    
```

Run

Output

Clear

```

/tmp/TbebzTtuce.o
1: 1   -1  -1
2: 1   2   -1
3: 1   2   3
2: 1   2   3
1: 1   2   3
5: 1   2   5
2: 1   2   5
1: 1   2   5
6: 1   2   6
2: 1   2   6
5: 5   2   6
6: 5   2   6
3: 5   3   6
1: 1   3   6
3: 1   3   6
6: 1   3   6
1: 1   3   6
2: 1   2   6
4: 1   2   4
3: 3   2   4

Total Number of Page Faults:    11
                    
```



C Online Compiler

Interactive C Course

main.c

52 -

53

54 +

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56

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60 -

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69 -

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73

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75

76

77 }

78

```
{
    if(frames[m] == pages[k])
    {
        temp[m] = 1;
    }
}
for(m = 0; m < total_frames; m++)
{
    if(temp[m] == 0)
        position = m;
}
frames[position] = pages[n];
page_fault++;
}

for(m = 0; m < total_frames; m++)
{
    printf("%d\t", frames[m]);
}
printf("\n");
}

printf("\nTotal Number of Page Faults:\t%d\n", page_fault);

return 0;
}
```

Run

Output

Clear

/tmp/TbebzTtuce.o

1: 1 -1 -1

2: 1 2 -1

3: 1 2 3

2: 1 2 3

1: 1 2 3

5: 1 2 5

2: 1 2 5

1: 1 2 5

6: 1 2 6

2: 1 2 6

5: 5 2 6

6: 5 2 6

3: 5 3 6

1: 1 3 6

3: 1 3 6

6: 1 3 6

1: 1 3 6

2: 1 2 6

4: 1 2 4

3: 3 2 4

Total Number of Page Faults: 11