



Project Classes Debug

os 1.c

```
85 {  
86     active[i]=0;  
87     for(k=1; k<=r; k++)  
88         simalloc[k]=resalloc[i][k];  
89 }  
90 }  
91 n=0;  
92 for(k=1; k<=r; k++)  
93     resreq[p][k]=newreq[k];  
94 printf("Deadlock willn't occur");  
95 }  
96 else  
97 {  
98     for(k=1; k<=r; k++)  
99     {  
100         resalloc[p][k]=newreq[k];  
101         totalloc[k]=newreq[k];  
102     }  
103     printf("Deadlock will occur");  
104 }  
105 }  
106 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

☐ Shorten compiler paths

Compilation results...

```
-----  
- Errors: 0  
- Warnings: 0  
- Output Filename: C:\Users\bhanu\OneDrive\Desktop\os 1.exe  
- Output Size: 130.1015625 KiB  
- Compilation Time: 0.22s
```

Line: 106 Col: 1 Sel: 0 Lines: 106 Length: 1887 Insert Done parsing in 0.031 seconds

```
C:\Users\bhanu\OneDrive\Desktop\os 1.exe  
Enter the no of processes:5  
Enter the no of resource classes:4  
Enter the total existed resource in each class:1 1 0 0  
Enter the allocated resources:8 7 2 3  
2 6 7 9  
1 6 7 8  
2 7 6 5  
1 2 8 5  
Enter the process making the new request:4  
Enter the requested resource:3  
2 7 6 5  
Enter the process which are n blocked or running:process 2:  
1 2 8 5  
process 3:  
process 4:  
1 0 0 0  
process 6:  
Deadlock will occur  
-----  
Process exited after 102.8 seconds with return value 19  
Press any key to continue . . .
```





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```
27 A[index][0] = temp;
28 }
29 A[0][2] = 0;
30 for (i = 1; i < n; i++) {
31 A[i][2] = 0;
32 for (j = 0; j < i; j++)
33 A[i][2] += A[j][1];
34 total += A[i][2];
35 }
36 avg_wt = (float)total / n;
37 total = 0;
38 printf("P BT WT TAT\n");
39 for (i = 0; i < n; i++)
40 {
41 A[i][3] = A[i][1] + A[i][2];
42 total += A[i][3];
43 printf("P%d %d %d %d\n", A[i][0], A[i][1], A[i][2], A[i][3]);
44 }
45 avg_tat = (float)total / n;
46 printf("Average Waiting Time= %f", avg_wt);
47 printf("\nAverage Turnaround Time= %f", avg_tat);
48 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\bhanu\OneDrive\Desktop\os 1.exe
- Output Size: 129.7705078125 KiB
- Compilation Time: 0.25s
```

C:\Users\bhanu\OneDrive\Desktop\os 1.exe

```
Enter number of process: 4
Enter Burst Time:
P1: 6
P2: 8
P3: 7
P4: 2
P BT WT TAT
P4 2 0 2
P1 6 2 8
P3 7 8 15
P2 8 15 23
Average Waiting Time= 6.250000
Average Turnaround Time= 12.000000
-----
Process exited after 46.6 seconds with return value 35
Press any key to continue . . .
```





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os 1.c

```
14 j=0;
15 printf("\tref string\t page frames\n");
16 for(i=1;i<=n;i++)
17 {
18     printf("%d\t\t",a[i]);
19     avail=0;
20     for(k=0;k<=n;k++)
21         if(frame[k]==a[i])
22             avail=1;
23     if (avail==0)
24     {
25         frame[j]=a[i];
26         j=(j+1)%n;
27         count++;
28         for(k=0;k<=n;k++)
29             printf("%d\t",frame[k]);
30     }
31     printf("\n");
32 }
33 printf("Page Fault Is %d",count);
34 return 0;
35 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\bhanu\OneDrive\Desktop\os 1.exe
- Output Size: 129.9423828125 KiB
- Compilation Time: 0.20s
```

C:\Users\bhanu\OneDrive\Desktop\os 1.exe

ENTER THE PAGE NUMBER :

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35

ENTER THE NUMBER OF FRAMES :4

	ref string		page frames	
1	1	-1	-1	-1
2	1	2	-1	-1
3	1	2	3	-1
4	1	2	3	0
5	6	2	3	0
6	6	5	3	0
7	6	5	4	0
8	6	5	4	3
9	2	5	4	3
10	2	1	4	3

Page Fault Is 10

Line: 35 Col: 2 Sel: 0 Lines: 35 Length: 642 Insert Done parsing in 0 seconds

ENG
IN14:03
27-09-2022



Project Classes Debug

```
os 1.c
52 for(j=r;j<f;j++)
53 {
54     if(b[r]<b[j])
55     {
56         t=b[r];
57         b[r]=b[j];
58         b[j]=t;
59     }
60 }
61
62 for(r=0;r<f;r++)
63 {
64     if(c2[r]==b[0])
65     q[r]=p[i];
66     printf("\t%d",q[r]);
67 }
68 printf("\n");
69 }
70 }
71 }
72 printf("\nThe no of page faults is %d",c);
73 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Compilation results...

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\bhanu\OneDrive\Desktop\os 1.exe
- Output Size: 130.2734375 KiB
- Compilation Time: 0.20s
```

C:\Users\bhanu\OneDrive\Desktop\os 1.exe

```
Enter no of pages:13
Enter the reference string:7
```

```
6
5
6
5
3
4
4
3
0
1
2
1
```

Enter no of frames:3

7		
7	6	
7	6	5
3	6	5
3	4	5
3	4	0
3	1	0
2	1	0

The no of page faults is 8

```
-----
Process exited after 73.42 seconds with return value 27
Press any key to continue . . .
```

```

Project Classes Debug os 1.c
1 #include<stdio.h>
2 #include<stdlib.h>
3
4 int mutex=1,full=0,empty=3,x=0;
5
6 int main()
7 {
8     int n;
9     void producer();
10    void consumer();
11    int wait(int);
12    int signal(int);
13    printf("\n1.Producer\n2.Consumer\n3.Exit");
14    while(1)
15    {
16        printf("\nEnter your choice:");
17        scanf("%d",&n);
18        switch(n)
19        {
20            case 1:    if((mutex==1)&&(empty!=0))
21                      producer();
22                      else
23                      {
24                          printf("\nBuffer is full!!\n");
25                          continue;
26                      }
27            case 2:    if(mutex==0)
28                      consumer();
29                      else
30                      {
31                          printf("\nBuffer is empty!!\n");
32                          continue;
33                      }
34            case 3:    exit(0);
35        }
36    }
37 }

```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\bhanu\OneDrive\Desktop\os 1.exe
- Output Size: 129.0712890625 KiB
- Compilation Time: 0.31s

```

C:\Users\bhanu\OneDrive\Desktop\os 1.exe
1.Producer
2.Consumer
3.Exit
Enter your choice:2
Buffer is empty!!
Enter your choice:1

Producer produces the item 1
Enter your choice:2

Consumer consumes item 1
Enter your choice:1

Producer produces the item 1
Enter your choice:1

Producer produces the item 2
Enter your choice:3

-----
Process exited after 37.17 seconds with return
value 0
Press any key to continue . . .

```