

```
1  #include<stdio.h>
2  #include<conio.h>
3  #include<string.h>
4  void main()
5  {
6      int et[20],at[10],n,i,j,temp,p[10],st[10],ft[10],wt[10],ta[10];
7      int totwt=0,totta=0;
8      float awt,ata;
9      char pn[10][10],t[10];
10     printf("Enter the number of process:");
11     scanf("%d",&n);
12     for(i=0; i<n; i++)
13     {
14         printf("Enter process name,arrivaltime,execution time & priority:");
15         scanf("%s%d%d%d",pn[i],&at[i],&et[i],&p[i]);
16     }
17     for(i=0; i<n; i++)
18         for(j=0; j<n; j++)
19         {
20             if(p[i]<p[j])
21             {
22                 temp=p[i];
23                 p[i]=p[j];
24                 p[j]=temp;
25                 temp=at[i];
26                 at[i]=at[j];
27                 at[j]=temp;
28                 temp=et[i];
29                 et[i]=et[j];
30                 et[j]=temp;
31                 strcpy(t,pn[i]);
32                 strcpy(pn[i],pn[j]);
33                 strcpy(pn[j],t);
34     }
```

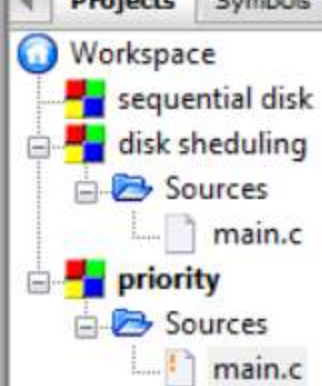


<global> main() : void



Management

Projects Symbols Files



```
34         }
35     }
36     for(i=0; i<n; i++)
37     {
38         if(i==0)
39         {
40             st[i]=at[i];
41             wt[i]=st[i]-at[i];
42             ft[i]=st[i]+et[i];
43             ta[i]=ft[i]-at[i];
44         }
45         else
46         {
47             st[i]=ft[i-1];
48             wt[i]=st[i]-at[i];
49             ft[i]=st[i]+et[i];
50             ta[i]=ft[i]-at[i];
51         }
52         totwt+=wt[i];
53         totta+=ta[i];
54     }
55     awt=(float)totwt/n;
56     ata=(float)totta/n;
57     printf("\nName\tarrivaltime\texecutiontime\tpriority\twaitingtime\ttatime");
58     for(i=0; i<n; i++)
59         printf("\n%s\t%5d\t\t%5d\t\t%5d\t\t%5d\t\t%5d",pn[i],at[i],et[i],p[i],wt[i],ta[i]);
60     printf("\nAverage waiting time is:%f",awt);
61     printf("\nAverage turnaroundtime is:%f",ata);
62     getch();
63 }
64
65
66
```

Logs & others

D:\study software\test\priority\main.c

C/C++

Windows (CR+LF)

WINDOWS-1252

Line 14, Col 77, Pos 390

Insert

Modified

Read/Write

default

Enter the number of process:3

Enter process name,arrivaltime,execution time & priority:1 2 3 4

Enter process name,arrivaltime,execution time & priority:1 2 5 7

Enter process name,arrivaltime,execution time & priority:4 6 7 8

Pname	arrivaltime	executiontime	priority	waitingtime	tatime
1	2	3	4	0	3
1	2	5	7	3	8
4	6	7	8	4	11

Average waiting time is:2.333333

Average turnaroundtime is:7.333333



Type here to search



```
1  #include<stdio.h>
2
3  void main()
4  {
5      int bsize[10], psize[10], bno, pno, flags[10], allocation[10], i, j;
6
7      for(i = 0; i < 10; i++)
8      {
9          flags[i] = 0;
10         allocation[i] = -1;
11     }
12
13     printf("Enter no. of blocks: ");
14     scanf("%d", &bno);
15
16     printf("\nEnter size of each block: ");
17     for(i = 0; i < bno; i++)
18         scanf("%d", &bsize[i]);
19
20     printf("\nEnter no. of processes: ");
21     scanf("%d", &pno);
22
23     printf("\nEnter size of each process: ");
24     for(i = 0; i < pno; i++)
25         scanf("%d", &psize[i]);
26     for(i = 0; i < pno; i++)
```



```
19
20     printf("\nEnter no. of processes: ");
21     scanf("%d", &pno);
22
23     printf("\nEnter size of each process: ");
24     for(i = 0; i < pno; i++)
25         scanf("%d", &psize[i]);
26     for(i = 0; i < pno; i++)
27         for(j = 0; j < bno; j++)
28             if(flags[j] == 0 && bsize[j] >= psize[i])
29             {
30                 allocation[j] = i;
31                 flags[j] = 1;
32                 break;
33             }
34     printf("\nBlock no.\tsize\t\tprocess no.\t\tsize");
35     for(i = 0; i < bno; i++)
36     {
37         printf("\n%d\t\t\t%d\t\t\t", i+1, bsize[i]);
38         if(flags[i] == 1)
39             printf("%d\t\t\t%d", allocation[i]+1, psize[allocation[i]]);
40         else
41             printf("Not allocated");
42     }
43 }
44
```

Enter no. of blocks: 4

Enter size of each block: 7

1
2
3

Enter no. of processes: 2

Enter size of each process: 1

3

Block no.	size	process no.	size
1	7	1	1
2	1	Not allocated	
3	2	Not allocated	
4	3	2	3

Process returned 4 (0x4) execution time : 41.492 s

Press any key to continue.



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ENG

10:36 AM
26-Sep-20



22