*main.c [priority] - Code::Blocks 17.12

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Management

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main.c *main.c

```
#include<stdio.h>
#include<conio.h>
#include<string.h>
void main()
{
    int et[20],at[10],n,i,j,temp,p[10],st[10],ft[10],wt[10],ta[10];
    int totwt=0,totta=0;
    float awt,ata;
    char pn[10][10],t[10];
    printf("Enter the number of process:");
    scanf("%d",&n);
    for(i=0; i<n; i++)
    {
        printf("Enter process name,arrivaltime,execution time & priority:");
        scanf("%s%d%d%d",pn[i],&at[i],&et[i],&p[i]);
    }
    for(i=0; i<n; i++)
        for(j=0; j<n; j++)
        {
            if(p[i]<p[j])
            {
                temp=p[i];
                p[i]=p[j];
                p[j]=temp;
                temp=at[i];
                at[i]=at[j];
                at[j]=temp;
                temp=et[i];
                et[i]=et[j];
                et[j]=temp;
                strcpy(t,pn[i]);
                strcpy(pn[i],pn[j]);
                strcpy(pn[j],t);
            }
```

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

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Management

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main.c *main.c

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

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"D:\study software\test\priority\bin\Debug\priority.exe"

```
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
```

*main.c [disk sheduling] - Code::Blocks 17.12

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Management

Projects Symbols Files

Workspace
disk sheduling
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*main.c

```
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++)
```

Logs & others

D:\study software\test\disk sheduling\main.c | C/C++ | Windows (CR+LF) | WINDOWS-1252 | Line 30, Col 9, Pos 621 | Insert | Modified | Read/Write | default

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Management

Projects Symbols Files

Workspace
disk sheduling
Sources

*main.c

```
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%d\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
```

Logs & others

D:\study software\test\disk sheduling\main.c | C/C++ | Windows (CR+LF) | WINDOWS-1252 | Line 30, Col 9, Pos 621 | Insert | Modified | Read/Write | default

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"D:\study software\test\disk sheduling\bin\Debug\disk sheduling.exe"

```
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.
```