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<global>

*main.c

```c
#include<stdio.h>
#include<stdlib.h>
int main(){
int i,ttat=0,twt=0,j,n=0,t=0,imp,proc=-1,pro=0;
float awt,atat;
int at[20],ct[20],bt[20],tat[20],wt[20];
printf("Enter number of processes: \n");
scanf("%d",&n);
printf("Enter arrival time: \n");
for ( i=0;i<n;i++){
    scanf("%d",&at[i]);
}
printf("Enter burst time: \n");
for ( i=0;i<n;i++){
    scanf("%d",&bt[i]);
}
for(i=0;i<n;i++){
        ct[i]=-1;
}
imp=at[0];
while(1){
    for(i=0;i<n;i++){
        if(at[i]<=t){
            if(ct[i]!=-1){
                continue;
            }
            else if(at[i]>=imp){
                imp=at[i];
                proc=i;
            }
        }
    }
t+=bt[proc];
imp=at[0];
ct[proc]=t;
pro+=1;
```

Logs & others

D:\study software\test\LCFS\main.c   C/C++   Windows (CR+LF)   WINDOWS-1252   Line 1, Col 1, Pos 0   Insert   Modified   Read/Write   default

```c
                  }
                  else if(at[i]>=imp){
                          imp=at[i];
                          proc=i;
                  }
              }
          }
t+=bt[proc];
imp=at[0];
ct[proc]=t;
pro+=1;
if(pro==n){
    break;
}
}
for(i=0;i<n;i++){
    tat[i]=ct[i]-at[i];
}
for(i=0;i<n;i++){
    wt[i]=tat[i]-bt[i];
}
printf("Process  Arrival-time(s)    Burst-time(s)  Completion-time(s)  Turnaround-time(s)  Waiting-time(s)\n");
  for(i=0;i<n;i++)
  {
    printf("P%d              %d               %d               %d               %d               %d\n",i,at[i],bt[i],ct[i],tat[i],wt[i]);
    twt+=wt[i];
    ttat+=tat[i];
  }
     awt = twt/n;
     atat = ttat/n;
    printf("Average waiting time: %f ms",awt);
   printf("\nAverage turn around time: %f ms",atat);
}
```

```
"D:\study software\test\LCFS\bin\Debug\LCFS.exe"

Enter number of processes:
4
Enter arrival time:
0
2
3
7
Enter burst time:
4
3
2
2
Process   Arrival-time(s)      Burst-time(s)  Completion-time(s)  Turnaround-time(s)  Waiting-time(s)
P0             0                    4                  4                  4                  0
P1             2                    3                  9                  7                  4
P2             3                    2                  6                  3                  1
P3             7                    2                 11                  4                  2
Average waiting time: 1.000000 ms
Average turn around time: 4.000000 ms
Process returned 0 (0x0)   execution time : 17.380 s
Press any key to continue.
```