Shortest Job First

#include<stdio.h> int main()

{

int

bt[20],p[20],wt[20],tat[20],i,j,n,total=0,pos,temp; float avg\_wt,avg\_tat; printf("Enter number of process:"); scanf("%d",&n);

printf("\nEnter Burst Time:\n");

for(i=0;i<n;i++)

{

printf("p%d:",i+1);

scanf("%d",&bt[i]);

p[i]=i+1;

}

for(i=0;i<n;i++)

{

pos=i; for(j=i+1;j<n;j++)

{

if(bt[j]<bt[pos])

pos=j;

}

temp=bt[i]; bt[i]=bt[pos]; bt[pos]=temp; temp=p[i]; p[i]=p[pos]; p[pos]=temp;

}

wt[0]=0; for(i=1;i<n;i++)

{

wt[i]=0;

for(j=0;j<i;j++) wt[i]+=bt[j];

total+=wt[i];

}

avg\_wt=(float)total/n;

total=0; printf("\nProcess\t Burst Time \tWaiting Time\tTurnaround Time"); for(i=0;i<n;i++)

{

tat[i]=bt[i]+wt[i];

total+=tat[i];

printf("\np%d\t\t %d\t\t %d\t\t\t%d",p[i],bt[i],wt[i],tat[i]);

}

avg\_tat=(float)total/n;

printf("\n\nAverage Waiting Time=%f",avg\_wt); printf("\nAverage Turnaround Time=%f\n",avg\_tat);

}