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#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;
    }

    //sorting of burst times

    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;
    }
}

```

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}

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   Burst Time   Waiting Time\tTurnaround Time\n");
for(i=0;i<n;i++)
{
    tat[i]=bt[i]+wt[i];
    total+=tat[i];
    printf("p%d \t\t %d \t\t %d \t\t %d\n",p[i],bt[i],wt[i],tat[i]);
}

avg_tat=(float)total/n;
printf("\nAverage Waiting Time=%f",avg_wt);
printf("\nAverage Turnaround Time=%f",avg_tat);
}

```