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#include<stdio.h>
int main()
{
    int bt[10]={0},at[10]={0},tat[10]={0},wt[10]={0},ct[10]={0};
    int n,sum=0;
    float total_TAT=0,total_WT=0;
    printf("Enter No.of process:");
    scanf ("%d",&n);
    for(int i=0;i<n;i++)
    {
        printf("Arrival time of P%d=",i+1);
        scanf("%d",&at[i]);
        printf("Burst time of P%d =",i+1);
        scanf("%d",&bt[i]);
    }
    for(int j=0;j<n;j++)
    {
        sum+=bt[j];
        ct[j]+=sum;
    }
    for(int k=0;k<n;k++)
    {
        tat[k]=ct[k]-at[k];
        total_TAT+=tat[k];
    }
    for (int k=0;k<n;k++)
    {
        wt[k]=tat[k]-bt[k];
        total_WT+=wt[k];
    }
    printf("\nProcess\t Arrival time\t Brust time\t Completing time\t Turn around time\t Waiting
time\n");

    for (int i=0;i<n;i++)
    {
        printf("P%d\t\t %d\t %d\t\t %d\t\t\t %d\t\t\t %d\n",i+1,at[i],bt[i],ct[i],tat[i],wt[i]);
    }
    printf("\n\nAverage Turn around time:\n%f", total_TAT/n) ;
    printf("\nAverage waiting time :\n%f\n",total_WT/n);
    return 0;
}

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Enter No.of process:5

Arrival time of P1=2

Burst time of P1 =8

Arrival time of P2=7

Burst time of P2 =1

Arrival time of P3=6

Burst time of P3 =2

Arrival time of P4=3

Burst time of P4 =6

Arrival time of P5=5

Burst time of P5 =4

Process	Arrival time	Brust time	Completing time	Turn around time	Waiting time
P1	2	8	8	6	-2
P2	7	1	9	2	1
P3	6	2	11	5	3
P4	3	6	17	14	8
P5	5	4	21	16	12

Average Turn around time:

8.600000

Average waiting time :

4.400000

Process returned 0 (0x0) execution time : 21.092 s

Press any key to continue.

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#include<stdio.h>

int main()
{
    int i,n,p[10]={0,1,2,3,4,5,6,7,8,9},min,k=1,btime=0;

    int bt[10],temp,j,at[10],wt[10],tt[10],ta=0,sum=0;

    float wavg=0,tavg=0,tsum=0,wsum=0;

    printf("Enter the No.of process =");

    scanf("%d",&n);

    for(i=0;i<n;i++)
    {
        printf("Enter the arrival time %d)process =",i+1);

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

        printf("Enter the burst time %d)process  =",i+1);

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

    for(i=0;i<n;i++)
    {
        for(j=0;j<n; j++)
        {
            if(at[i]<at[j])
            {
                temp=p[j];

                p[j]=p[i];

                p[i]=temp;

                temp=at[j];

                at[j]=at[i];
            }
        }
    }
}

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        at[i]=temp;

        temp=bt[j];

        bt[j]=bt[i];

        bt[i]=temp;

    }

}

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

{

    btime=btime+bt[j];

    min=bt[k];

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

    {

        if (btime>=at[i] && bt[i]<min)

        {

            temp=p[k];

            p[k]=p[i];

            p[i]=temp;

            temp=at[k];

            at[k]=at[i];

            at[i]=temp;

            temp=bt[k];

            bt[k]=bt[i];

            bt[i]=temp;

        }

    }

}

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        k++;
    }
    wt[0]=0;
    for(i=1;i<n;i++)
    {
        sum=sum+bt[i-1];
        wt[i]=sum-at[i];
        wsum=wsum+wt[i];
    }
    wavg=(wsum/n);
    for(i=0;i<n;i++)
    {
        ta=ta+bt [i];
        tt[i]=ta-at[i];
        tsum=tsum+tt[i];
    }
    tavg=(tsum/n);
    printf("\nProcess\t Arrival time\t Brust time\t waiting time\t Turn around time");
    for(i=0;i<n;i++)
    {
        printf ("\n p%d\t\t %d\t\t %d\t\t %d\t\t %d",p[i],at[i],bt[i],wt[i],tt[i]);
    }
    printf("\n\nAverage waiting time:\n%f",wavg);
    printf("\n\nAverage Turn around time:\n%f",tavg);
    return 0;
}

```

Enter the No.of process =4

Enter the arrival time 1)process =0

Enter the burst time 1)process =5

Enter the arrival time 2)process =1

Enter the burst time 2)process =3

Enter the arrival time 3)process =2

Enter the burst time 3)process =8

Enter the arrival time 4)process =3

Enter the burst time 4)process =6

Process	Arrival time	Burst time	waiting time	Turn around time
p0	0	5	0	5
p1	1	3	4	7
p3	3	6	5	11
p2	2	8	12	20

Average waiting time:

:5.250000

Average Turn around time:

10.750000

Process returned 0 (0x0) execution time : 21.255 s

Press any key to continue.

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