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#include<iostream>

using namespace std;

int main()
{
    int n,temp,temp2 =0,min,d;

    double avg_TAT,avgW_T,sum_TAT,sum_WT;

    cout<<"Enter no of process"<<endl;
    cin>>n;

    int A_T[n],B_T[n],C_T[n],TAT[n],W_T[n];

    for(int i=0;i<n;i++)
    {
        cout<<"Enter Arrival Time ";
        cin>>A_T[i];
    }
    for(int i=0;i<n;i++)
    {
        cout<<"Enter Burst Time ";
        cin>>B_T[i];
    }
    for(int i=0;i<n;i++)
    {
        for(int j=i+1;j<n;j++)
        {
            if(B_T[i]<B_T[j])
            {
                A_T[i],A_T[j]=A_T[j],A_T[i];
                B_T[i],B_T[j]=B_T[j],B_T[i];
            }
        }
    }
}

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    }
}
W_T[0] = 0;
min=A_T[0];
for(int i=0;i<n;i++)
{
    if(min>A_T[i])
    {
        min=A_T[i];
        d=i;
    }
}
temp2=min;
C_T[d]=temp2+B_T[d];
temp2=C_T[d];

for(int i=0;i<n;i++)
{
    if(A_T[i]!=min)
    {
        C_T[i]=B_T[i]+temp2;
        temp2=C_T[i];
    }
}

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

    TAT[i]=C_T[i]-A_T[i];
    sum_TAT=sum_TAT+TAT[i];
    W_T[i]=TAT[i]-B_T[i];
    sum_WT=sum_WT+W_T[i];
}

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    }

    avg_TAT=sum_TAT/n;

    avgW_T=sum_WT/n;

    cout<<"Process | Arrival_Time | Burst_Time | Waiting_Time | Turn_Around_Time\n";

    for(int i=0;i<n;i++)
    {
        cout<<"P"<<i+1<<"      "<<A_T[i]<<"      "<<B_T[i]<<"      "<<W_T[i]<<"
        "<<TAT[i]<<endl;
    }

    cout<<"Average waiting time ="<<avgW_T<<endl;

    cout<<"Average turn around time ="<<avg_TAT<<endl;
}

```