|  |
| --- |
| #include<iostream> |
|  | using namespace std; |
|  | int main() |
|  | { |
|  | int i,n; |
|  | float at[30],bt[30],wt[30],tat[30],temp[30],awt=0, atat=0; |
|  |  |
|  | cout<<"Enter the number of process: "; |
|  | cin>>n; |
|  | cout<<"enter the burst time of the processes: "; |
|  | for(i=0;i<n;i++) |
|  | { |
|  | cin>>bt[i]; |
|  | } |
|  | cout<<"enter the arrival time of the processes: "; |
|  | for(i=0;i<n;i++) |
|  | { |
|  | cin>>at[i]; |
|  | } |
|  | cout<<"Process"<<"\t"<<"Arrival Time"<<"\t"<<"Burst Time"<<"\t"<<"Waiting time"<<"\t"<<"Turn Around Time"<<endl; |
|  | temp[0]=0; |
|  | for(i=0;i<n;i++) |
|  | { |
|  | wt[i]=0; |
|  | tat[i]=0; |
|  | temp[i+1]=temp[i]+bt[i]; |
|  | wt[i]=temp[i]-bt[i]; |
|  | tat[i]=wt[i]+bt[i]; |
|  |  |
|  | awt =awt + wt[i]; |
|  | atat = atat +tat[i]; |
|  | cout<<i+1<<"\t\t"<<at[i]<<"\t\t"<<bt[i]<<"\t\t"<<wt[i]<<"\t\t"<<tat[i]<<endl; |
|  | } |
|  | awt = awt /n ; |
|  | cout<<"Average waiting time = "<<awt<<endl; |
|  | atat = atat/n; |
|  | cout<<"Average turn around time = "<<atat<<endl; |
|  | return 0; |
|  | } |