ROUND ROBIN

#include <iostream>

using namespace std;

int main()

{

int i,n,j,bt[20],wt[20],tat[20],avtat=0,avwt=0,quantam;

cout<<"enter the number of processes";

cin>>n;

cout<<"enter the timr quantam";

cin>>quantam;

int rem\_bt[n];

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

{

cout<<"\nP["<<i+1<<"]";

cin>>bt[i];

}

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

rem\_bt[i]=bt[i];

int t=0;

while(1)

{

bool done =true;

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

{

if(rem\_bt[i]>0)

{

done=false;

if(rem\_bt[i]>quantam)

{ t+= quantam;

rem\_bt[i]-=quantam;

}

else{

t+= rem\_bt[i];

wt[i]=t-bt[i];

rem\_bt[i]=0;

}

}

}

if( done =true){break;}

}

cout << "\nProcesses\t Burst Time\t Waiting Time\t Turnaround Time" << endl;

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

{

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

avtat+=tat[i];

avwt+=wt[i];

cout<<"\nP[i"<<i+1<<" "<<bt[i]<<" "<<" "<<wt[i]<<" "<<tat[i];

}

avtat/=i;

avwt/=i;

cout<<"\naverage"<<avtat;

cout<<"\n avg wt"<<avwt;

return 0;

}