Round Robin

#include<stdio.h>

main()

{

int st[10],bt[10],wt[10],tat[10],n,tq;

int i,count=0,swt=0,stat=0,temp,sq=0;

float awt=0.0,atat=0.0;

system("COLOR F0");

printf("Enter number of processes:");

scanf("%d",&n);

printf("Enter burst time for sequences:");

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

{

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

st[i]=bt[i];

}

printf("Enter time quantum:");

scanf("%d",&tq);

while(1)

{

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

{

temp=tq;

if(st[i]==0)

{

count++;

continue;

}

if(st[i]>tq)

st[i]=st[i]-tq;

else

if(st[i]>=0)

{

temp=st[i];

st[i]=0;

}

sq=sq+temp;

tat[i]=sq;

}

if(n==count)

break;

}

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

{

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

swt=swt+wt[i];

stat=stat+tat[i];

}

awt=(float)swt/n;

atat=(float)stat/n;

printf("\nProcess\_no Burst time Wait time Turn around time\n");

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

printf("%d %d %d %d\n",i+1,bt[i],wt[i],tat[i]);

printf("\nAvg wait time is %f\nAvg turn around time is %f",awt,atat);

}