/\*Program to implemrnt round robin scheduling

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#include<stdio.h>

int main()

{

int k=1,i,j,n,time,temp,flag=0,t,ti[50],tp[50];

int wt=0,tt=0,at[10],bt[10],rt[10];

printf("Enter Total number ofProcess:\t ");

scanf("%d",&n);

temp=n;

printf("Enter arrival time of process \n");

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

{

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

}

printf("Enter burst time of process \n");

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

{

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

rt[i]=bt[i];

}

printf("Enter Time Slice:\t");

scanf("%d",&t);

ti[0]=0;

printf("\n\nProcess\t|Arival Time\t|Burst Time\t|Waiting Time\t|Turnaround Time|\n\n");

for(time=0,i=0;temp!=0;)

{

if(rt[i]<=t && rt[i]>0)

{

time+=rt[i];

ti[k]=time;

tp[k]=i;

k++;

rt[i]=0;

flag=1;

}

else if(rt[i]>0)

{

rt[i]-=t;

time+=t;

ti[k]=time;

tp[k]=i;

k++;

}

if(rt[i]==0 && flag==1)

{

temp--;

printf("P[%d]\t\t%d\t\t%d\t\t%d\t\t%d\n",i+1,at[i],bt[i],time-at[i]-bt[i],time-at[i]);

wt+=time-at[i]-bt[i];

tt+=time-at[i];

flag=0;

}

if(i==n-1)

i=0;

else if(at[i+1]<=time)

i++;

else

i=0;

}

printf("\nAverage Waiting Time= %f\n",wt\*1.0/n);

printf("Avg Turnaround Time = %f",tt\*1.0/n);

printf("\n");

for(i=1;i<k;i++)

{

printf(" |p%d ",tp[i]+1);

}

printf("|");

printf("\n");

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

{

printf("%d ",ti[i]);

}

printf("\n");

return 0;

}

OUTPUT

student@user:~/Anand$ gcc rr.c

student@user:~/Anand$ ./a.out

Enter Total Process: 3

Enter arrival time

0

3

7

Enter burst time

24

3

4

Enter Time Quantum: 2

Process |Arival Time |Burst Time |Waiting Time |Turnaround Time|

P[2] 3 3 3 6

P[3] 7 4 4 8

P[1] 0 24 7 31

Average Waiting Time= 4.666667

Avg Turnaround Time = 15.000000

|p1 |p1 |p2 |p1 |p2 |p3 |p1 |p3 |p1 |p1 |p1 |p1 |p1 |p1 |p1 |p1 |

0 2 4 6 8 9 11 13 15 17 19 21 23 25 27 29 31

