#include<stdio.h>

main()

{

int i,j,n,bu[10],wa[10],tat[10],t,ct[10],max;

float awt=0,att=0,temp=0;

clrscr();

printf("Enter the no of processes -- ");

scanf("%d",&n);

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

{

printf("\nEnter Burst Time for process %d -- ", i+1);

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

ct[i]=bu[i];

}

printf("\nEnter the size of time slice -- ");

scanf("%d",&t);

max=bu[0];

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

if(max<bu[i])

max=bu[i];

for(j=0;j<(max/t)+1;j++)

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

if(bu[i]!=0)

if(bu[i]<=t) {

tat[i]=temp+bu[i];

temp=temp+bu[i];

bu[i]=0;

}

else {

bu[i]=bu[i]-t;

temp=temp+t;

}

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

wa[i]=tat[i]-

ct[i]; att+=tat[i];

awt+=wa[i];}

printf("\nThe Average Turnaround time is -- %f",att/n);

printf("\nThe Average Waiting time is -- %f ",awt/n);

printf("\n\tPROCESS\t BURST TIME \t WAITING TIME\tTURNAROUND TIME\n");

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

printf("\t%d \t %d \t\t %d \t\t %d \n",i+1,ct[i],wa[i],tat[i]);

getch();}

INPUT:

Enter the no of processes – 3

Enter Burst Time for process 1 – 24

Enter Burst Time for process 2 -- 3

Enter Burst Time for process 3 – 3

Enter the size of time slice – 3

OUTPUT:

PROCESS BURST TIME WAITING TIME TURNAROUNDTIME

1 24 6 30

2 3 4 7

3 3 7 10

The Average Turnaround time is – 15.666667 The

Average Waiting time is------------ 5.666667