1905387

Chaudhary Hamdan

CC Lab sessional

Answer:

FCFS

// Author: Chaudhary Hamdan, 1905387

#include<stdio.h>

int main()

{

int p[10],at[10],bt[10],ct[10],tat[10],wt[10],i,j,temp=0,n;

float awt=0,atat=0;

printf("enter no of proccess you want:");

scanf("%d",&n);

printf("enter %d process:",n);

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

{

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

}

printf("enter %d arrival time:",n);

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

{

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

}

printf("enter %d burst time:",n);

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

{

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

}

// sorting at,bt, and process according to at

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

{

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

{

if(at[j]>at[j+1])

{

temp=p[j+1];

p[j+1]=p[j];

p[j]=temp;

temp=at[j+1];

at[j+1]=at[j];

at[j]=temp;

temp=bt[j+1];

bt[j+1]=bt[j];

bt[j]=temp;

}

}

}

/\* calculating 1st ct \*/

ct[0]=at[0]+bt[0];

/\* calculating 2 to n ct \*/

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

{

//when proess is ideal in between i and i+1

temp=0;

if(ct[i-1]<at[i])

{

temp=at[i]-ct[i-1];

}

ct[i]=ct[i-1]+bt[i]+temp;

}

/\* calculating tat and wt \*/

printf("\np\t A.T\t B.T\t C.T\t TAT\t WT");

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

{

tat[i]=ct[i]-at[i];

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

atat+=tat[i];

awt+=wt[i];

}

atat=atat/n;

awt=awt/n;

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

{

printf("\nP%d\t %d\t %d\t %d \t %d \t %d",p[i],at[i],bt[i],ct[i],tat[i],wt[i]);

}

printf("\naverage turnaround time is %f",atat);

printf("\naverage wating timme is %f",awt);

return 0;

}

Output:

