```
#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;
}
```