```c
#include<stdio.h>
 int main()
{
    int
bt[20],p[20],wt[20],tat[20],i,j,n,total=0,pos,temp;
    float avg_wt,avg_tat;
    printf("Enter number of process:");
    scanf("%d",&n);
    printf("\nEnter Burst Time:\n");
    for(i=0;i<n;i++)
    {
        printf("p%d:",i+1);
        scanf("%d",&bt[i]);
        p[i]=i+1;
    }
        for(i=0;i<n;i++)
    {
        pos=i;
        for(j=i+1;j<n;j++)
        {
            if(bt[j]<bt[pos])
            pos=j;
        }
        temp=bt[i];
        bt[i]=bt[pos];
        bt[pos]=temp;
        temp=p[i];
        p[i]=p[pos];
        p[pos]=temp;
    }
    wt[0]=0;
    for(i=1;i<n;i++)
    {
        wt[i]=0;
        for(j=0;j<i;j++)
        wt[i]+=bt[j];
        total+=wt[i];
    }
    avg_wt=(float)total/n;
    total=0;
    printf("\nProcess\t    Burst Time    \tWaiting
Time\tTurnaround Time");
    for(i=0;i<n;i++)
    {
        tat[i]=bt[i]+wt[i];
        total+=tat[i];
        printf("\np%d\t\t   %d\t\t
%d\t\t\t%d",p[i],bt[i],wt[i],tat[i]);
    }
        avg_tat=(float)total/n;
    printf("\n\nAverage Waiting Time=%f",avg_wt);
    printf("\nAverage Turnaround Time=%f\n",avg_tat);
}
```

```
Enter number of process:
Enter Burst Time:
p1:p2:p3:p4:
Process     Burst Time     Waiting Time
Turnaround Time
p3    1       0  1
p2    2       1  3
p4    4       3  7
p1    10      7  17

Average Waiting Time=2.750000
Average Turnaround Time=7.000000
```

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int main ()
{
    int
    bt [20], p[20], wt[20], tat[20], i, j, n, total=0, pos, temp;
    float avg_wt, avg_tat;
    printf ("Enter number of process: ");
    scanf ("%d", &n);
    printf ("\n Enter Burst Time: \n");
    for (i=0, i<n; i++)
    {
        printf ("p%d:", i + 1);
        scanf ("%d", & bt [i]);
        p[i] = i+1;
    }
    for (i=0; i<n; i++)
    {
        pos = i;
        for (j=i+1; j<n; j++)
        {
            if ( bt [j] < bt [pos])
                pos = j;
        }
        temp = bt [i];
        bt [i] = bt [pos];
        bt [pos] = temp;
        temp = p[i];
        p[i] = p[pos];
        p[pos] = temp;
```

```c
3
wt [0] = 0;
for (i=1; i<n; i++)
{
    wt [i] = 0;
    for (j=0; j<i; j++)
    wt[i] + = bt[j];
    total + = wt [i];
}

avg_wt = (float) total /n;
total = 0;
printf ("\n process\t Burst Time \twaiting
Time \tTurnaround time");
for (i=0; i<n; i++)
{
    tat [i] = bt[i] + wt[i];
    total + = tat[i];
%d\t\t\t% d", p[i], bt[i], wt[i], tat[i];
}

avg_tat = (float) total /n;
printf ("\n \nAverage Waiting Time =%f ", avg_wt);
printf ("\n Average Turnaround time = %f\n ", avg_tat);
}
```