

q1

```
#include <stdio.h>
int main(){
int arr[10];
int temp,sum=0,ttsum=0,wtsum=0;
float avgtat=0,avgwt=0;
int at=0;
int tat[10];
int wt[10];
int ct[10];
printf("Enter the burst times of 5 processes ");
for(int i=0;i<4;i++){
scanf("%d",&temp);
arr[i]=temp;
sum=sum+arr[i];
ct[i]=sum;
tat[i]=ct[i]-at;
wt[i]=tat[i]-arr[i];
}
for(int i=0;i<4;i++){
ttsum=ttsum+tat[i];
wtsum=wtsum+wt[i];
}
printf(" AT  BT  CT  TAT  WT \n");
for(int i=0;i<4;i++){

printf(" 0   %d  %d  %d  %d  \n",arr[i],ct[i],tat[i],wt[i] );
}
avgwt=wtsum/4.0;
avgtat=ttsum/4.0;
printf("Average waiting time is %f",avgwt);
printf("Average turn around time is %f",avgtat);

return 0;
}
```

q2

```
#include <stdio.h>
int main(){
int bt[10];
int att[10];
int temp1,temp,sum=0,ttsum=0,wtsum=0;
float avgtat=0,avgwt=0;
int at=0;
int tat[10];
int wt[10];
int ct[10];
printf("Enter the arriving time and burst times of 4 processes ");
for(int i=0;i<4;i++){
scanf("%d",&temp1);
att[i]=temp1;
```

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scanf("%d",&temp);
bt[i]=temp;
if(i==0){sum=att[i];}
sum=sum+bt[i];
ct[i]=sum;
tat[i]=ct[i]-att[i];
wt[i]=tat[i]-bt[i];
}
for(int i=0;i<4;i++){
ttsum=ttsum+tat[i];
wtsum=wtsum+wt[i];
}
printf(" AT BT CT TAT WT \n");
for(int i=0;i<4;i++){
printf(" %d %d %d %d %d \n",att[i],bt[i],ct[i],tat[i],wt[i] );
}
avgwt=wtsum/4.0;
avgtat=ttsum/4.0;
printf("Average waiting time is %f",avgwt);
printf("Average turn around time is %f",avgtat);
return 0;
}

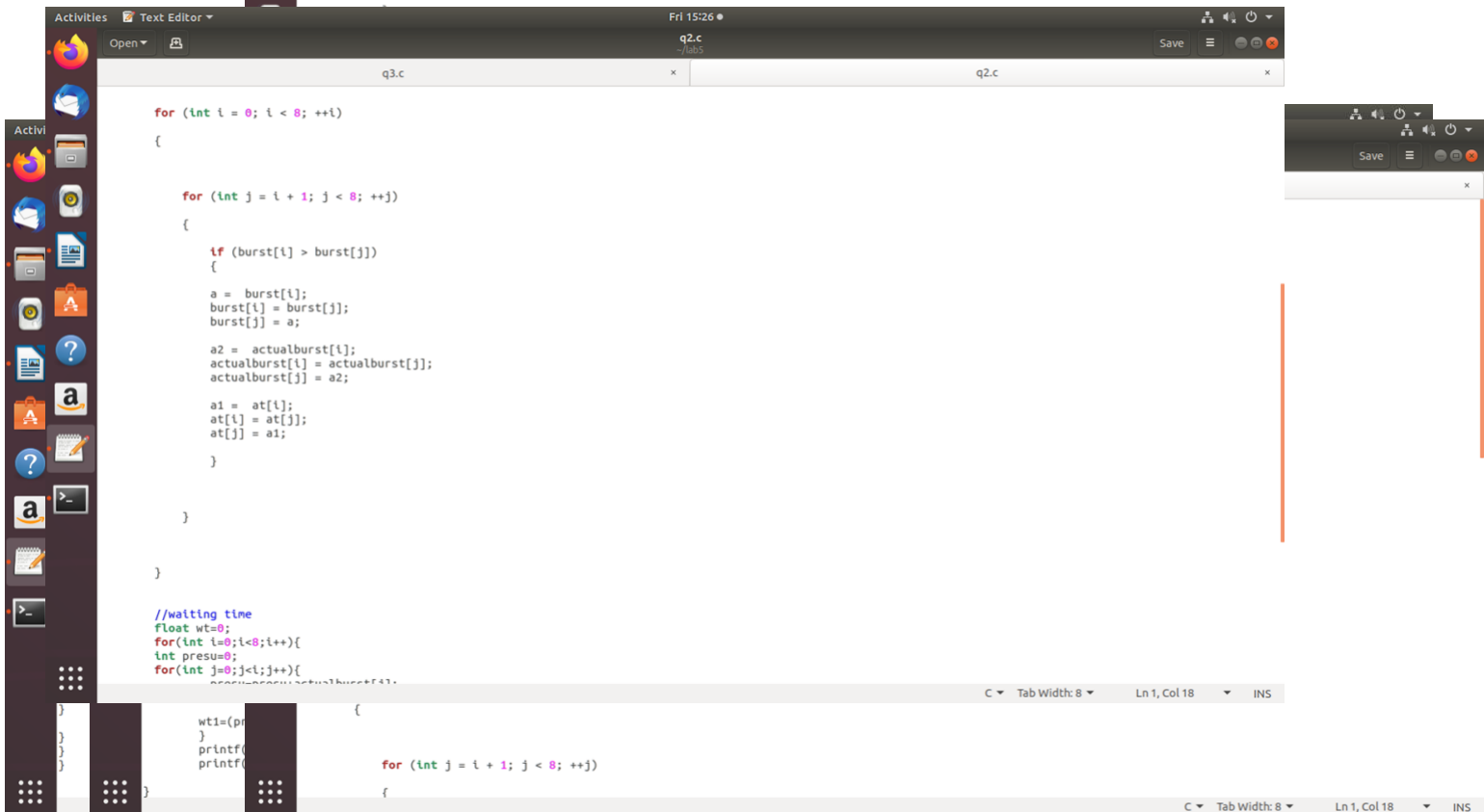
```



```

at[i] = at[j];
at[j] = a1;
}

```



```

for (int i = 0; i < 8; ++i)
{
    for (int j = i + 1; j < 8; ++j)
    {
        if (burst[i] > burst[j])
        {
            a = burst[i];
            burst[i] = burst[j];
            burst[j] = a;

            a2 = actualburst[i];
            actualburst[i] = actualburst[j];
            actualburst[j] = a2;

            a1 = at[i];
            at[i] = at[j];
            at[j] = a1;
        }
    }
}

//waiting time
float wt=0;
for(int i=0;i<8;i++){
    int presu=0;
    for(int j=0;j<i;j++){
        presu=presu+actualburst[j];
    }
    wt1=(presu+burst[i]);
    printf("%d\t",wt1);
    printf("%d\t",burst[i]);
    wt=wt+wt1;
}
printf("\n\n");
for (int j = i + 1; j < 8; ++j)
{

```