

Question 1

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#include <stdio.h>

struct PCB

{

int pid, arrival, burst, turnaround;

}

void print(int x);

void main()

{

int i, num, j;

float avg = 0.0, sum = 0.0;

struct PCB p[10], temp;

printf("Enter Arrival time and Burst time for Process %d: \n", i+1);

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

p[i].pid = i+1;

}

for(i=0; i<num-1; i++)

{

for(j=0; j<num-i-1; j++)

{

if(p[j].arrival > p[j+1].arrival)

{

temp = p[j];

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

p[j+1] = temp;

}

}

}

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

{

sum = sum + p[i].burst;

```
p[i].turnaround = sum;
```

```
sum = 0;
```

```
pline(44);
```

```
printf("PID | Arrival | Burst | Turnaround | n");
```

```
pline(44);
```

```
for (i = 0; i < num; i++)
```

```
{
```

```
    printf("%d | %d | %d | n", p[i].pid, p[i].arrival, p[i].burst  
    , p[i].turnaround);
```

```
    sum += p[i].turnaround;
```

```
}
```

```
pline(44);
```

```
avg = sum / (float) num;
```

```
printf("n total Turnaround Time : %.f", sum);
```

```
printf("n Average Turnaround Time : %.3f", avg);
```

```
}
```

```
void pline(int x)
```

```
{
```

```
    int i;
```

```
    for (i = 0; i < x; i++)
```

```
{
```

```
        printf("-");
```

```
}
```

```
    printf("n");
```

```
}
```