

Q2 #include <stdio.h>

main()

{ int at[10], bt[10], ht[10], endtime, i, smallest, process\_gantt[100];

int remain=0, n, time, sum\_wait=0, sum\_turnaround=0;

printf("enter no of process:");

scanf("%d", &n);

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

{ printf("enter arrival time for process P%d:", i+1);

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

printf("enter burst time for process P%d:", i+1);

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

ht[i] = bt[i];

}

printf("\nin process it turn around / waiting time in\n");

ht[9] = 9999;

for (time=0; remain!=n; time++)

{ smallest=9;

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

{ if (at[i] <= time && ht[i] < ht[smallest] && ht[i] > 0)

{ process\_gantt[time] = i;

smallest = i;

}

②

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at[smallest]--;
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if (at[smallest] == 0)
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```
{ remain++;
```

```
endtime = time + 1;
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```
printf("In p[%d] at [%d] + 1 + t + d", smallest + 1, endtime - at[smallest],
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endtime - bt[smallest] - at[smallest]);
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sum-wait += endtime - bt[smallest] - at[smallest];
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sum-turnaround = endtime - at[smallest];
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}
```

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}
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printf("In average waiting time = %f\n", sum-wait/n);
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```
printf("In average turnaround time = %f\n", sum-turnaround/n);
```

```
for (i=0; i<=time; i++)
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```
{ printf("%d -> p%d", process[ant++][i] + 1);
```

```
}
```

```
}
```

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