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Q2 SJF Scheduling.

```
#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 processes:");
```

```
scanf("%d", &N);
```

```
printf("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;
```

```
}
```

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```
temp = bt[i]
bt[i] = bt[pos];
bt[pos] = temp;
```

```
temp = P[i];
P[i] = P[pos];
P[pos] = temp;
```

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with  $[0] = 0$

for ( $i = 1; i \leq n; i++$ )

$$\{ \text{wert}[i] = 0; \}$$

```
for (j = 0; j < 5; ++j)
    wt[i] += bt[j];
```

```
total += wt[i];
```

3

3  
avg-wt = (float) total / n;

$$\text{total} = 0;$$

```
Print (" /n hours left burnt time")
for (i=0; i<n; i++)
```

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$$Tat[i] = bt[i] + wt[i];$$

total += test[i];

```
Print f.C[1]/h.p.%d\n", i, dat[i]);
```

3

Waiting (Among the)";

1.  $2 \times \text{len}(s) - 1$ ,  $l[i]$ ,  $r[i]$ ,  $w[i]$

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avg - dat = (float) total / n;

printf("Average waiting time = %.f ", avg-wt);

printf("Average turnaround time = %.f ", avg-dat);

}

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```
C:\Users\kunda\Desktop\New folder\555.exe
Enter number of process:4
Enter Burst Time:
p1:10
p2:2
p3:1
p4:4
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
-----
Process exited after 17.13 seconds with return value 0
Press any key to continue . . .
```