

#include <stdio.h>

void 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("\n Enter burst time: \n");

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

{

printf("P%d:", i+1);

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

p[i] = i+1;

}

// Sorting burst time

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;

}

=> BSC-IT Shubham Lingwal

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=> ~~Suppose~~

=> ~~on window~~

=>

// Calculating waiting time

```
for(i=1; i<n; i++)
```

```
{
```

```
    wt[i] = 0;
```

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

```
    { wt[i] += bt[j];
```

```
    printf("waiting time %d", wt[i]);
```

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

```
}
```

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

```
total = 0;
```

```
printf("In Process Burst time waiting time turnaround time");
```

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

```
{
```

```
    tat[i] = bt[i] + wt[i];
```

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

```
printf("In %d %d %d %d", i, bt[i], wt[i], tat[i]);
```

```
avg-tat = (float) total / n;
```

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

```
printf("In In Average turnaround time = %f", avg-tat);
```

```
}
```

Shubham