OPERATING SYSTEM - CS23431 EXP 6(A)

FIRST COME FIRST SERVE

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PROGRAM:
#include <stdio.h>
int main() {
int n, i; printf("Enter number of processes: "); scanf("%d", &n);
int bt[n], wt[n], tat[n];
printf("\nEnter burst time for each process:\n");
for (i = 0; i < n; i++) {
  printf("P[%d]: ", i + 1);
  scanf("%d", &bt[i]);
}
wt[0] = 0;
for (i = 1; i < n; i++) {
  wt[i] = wt[i - 1] + bt[i - 1];
for (i = 0; i < n; i++) {
tat[i] = bt[i] + wt[i];
}
int total_wt = 0, total_tat = 0;
for (i = 0; i < n; i++)
  total wt += wt[i];
  total_tat += tat[i];
}
printf("\nProcess\tBurst Time\tWaiting Time\tTurnaround Time\n");
for (i = 0; i < n; i++) {
  printf("P[\%d])t\%5d\t\t\%5d\t\t\%5d\n",
```

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i + 1, bt[i], wt[i], tat[i]);
}
printf("\nTotal waiting time = %d\n", total_wt);
printf("Total turnaround time = %d\n", total_tat);
printf("Average waiting time = %.2f\n", (float)total_wt / n);
printf("Average turnaround time = %.2f\n", (float)total_tat / n);
return 0;
}
```

OUTPUT:

```
[student@localhost ~]$ vi fcfs164.c
[student@localhost ~]$ gcc fcfs164.c
[student@localhost ~]$ ./a.out
Enter number of process: 3
Enter burst time for each process: 24
Process Burst time Waiting time Turn Around Time
0 24 0 24
1 3 24 27
2 3 27 30
Total waiting time is: 51
Total turn around time is: 81
Average waiting time is: 17
Average turn around time is: 27
[student@localhost ~]$ ■
```