SJF:

```
#include <stdio.h>
#include <string.h>
struct Process {
  char name[10];
  int at, bt, wt, tt, done;
};
int main() {
  int n, time = 0, done = 0, i, min_idx;
  struct Process p[100];
  float total_wt = 0, total_tt = 0;
  printf("Enter number of processes: ");
  scanf("%d", &n);
  for (i = 0; i < n; i++) {
     printf("Enter name, arrival time, burst time of process %d: ", i+1);
     scanf("%s %d %d", p[i].name, &p[i].at, &p[i].bt);
     p[i].wt = p[i].tt = p[i].done = 0;
  while (done != n) {
     min idx = -1;
     for (i = 0; i < n; i++)
        if (p[i].at <= time && !p[i].done)
           if (\min_i dx == -1 || p[i].bt < p[\min_i dx].bt)
             min idx = i;
     if (min_idx == -1) {
        time++;
     } else {
        p[min_idx].wt = time - p[min_idx].at;
        time += p[min_idx].bt;
        p[min idx].tt = p[min idx].wt + p[min idx].bt;
        p[min_idx].done = 1;
        total_wt += p[min_idx].wt;
        total_tt += p[min_idx].tt;
        done++;
     }
  }
  printf("\nName\tAT\tBT\tWT\tTT\n");
  for (i = 0; i < n; i++)
     printf("%s\t%d\t%d\t%d\t%d\n", p[i].name, p[i].at, p[i].bt, p[i].wt, p[i].tt);
  printf("\nAvg WT = %.2f\nAvg TT = %.2f\n", total wt/n, total tt/n);
  return 0;
}
```

```
Enter number of processes: 3
Enter name, arrival time, burst time of process 1: A
3
4
Enter name, arrival time, burst time of process 2: B
5
7
Enter name, arrival time, burst time of process 3: C
1
4
Name AT
          BT WT TT
   3 4
           2
              6
Α
   5 7
          4 11
В
C 1 4 0
              4
Avg WT = 2.00
Avg TT = 7.00
```