```
#include <stdio.h>
int main()
{
	int AT[10], BT[10], temp[10];
	int i, smallest, count = 0, time, limit;
	double WT = 0, TAT = 0, end;
	float average_waiting_time, average_turnaround_time;
	printf("\nEnter the Total Number of Processes:\t");
	scanf("%d", &limit);
	printf("\nEnter Details of %d Processes\n", limit);
	for(i = 0; i < limit; i++)
	{
		printf("\nEnter Arrival Time:\t");
		scanf("%d", &AT[i]);
		printf("Enter Burst Time:\t");
		scanf("%d", &BT[i]);
		temp[i] = BT[i];
	}
BT[9] = 9999;
	for(time = 0; count != limit; time++)
	{
		smallest = 9;
		for(i = 0; i < limit; i++)
		{
			if(AT[i] <= time && BT[i] < BT[smallest] && BT[i] > 0)
			{
				smallest = i;
			}
		}
```

```
                BT[smallest]--;
                if(BT[smallest] == 0)
                {
                        count++;
                        end = time + 1;
                        WT = WT + end - AT[smallest] - temp[smallest];
                        TAT = TAT + end - AT[smallest];
                }
        }
average_waiting_time = WT / limit;
        average_turnaround_time = TAT / limit;
        printf("\n\nAverage Waiting Time:\t%lf\n", average_waiting_time);
        printf("Average Turnaround Time:\t%lf\n", average_turnaround_time);
        return 0;
}
```