```
// Function to find the waiting time for all processes
void findWaitingTime(int processes[], int n, int bt[], int wt[]) {
  // waiting time for the first process is 0
  wt[0] = 0;
  // calculating waiting time
  for (int i = 1; i < n; i++)
    wt[i] = bt[i - 1] + wt[i - 1];
}
// Function to calculate turn around time
void findTurnAroundTime(int processes[], int n, int bt[], int wt[], int tat[]) {
  // calculating turnaround time by adding bt[i] + wt[i]
  for (int i = 0; i < n; i++)
    tat[i] = bt[i] + wt[i];
}
// Function to calculate average time
void findavgTime(int processes[], int n, int bt[]) {
  int wt[n], tat[n], total_wt = 0, total_tat = 0;
  // Function to find waiting time of all processes
  findWaitingTime(processes, n, bt, wt);
  // Function to find turn around time for all processes
  findTurnAroundTime(processes, n, bt, wt, tat);
  // Display processes along with all details
  printf("Processes Burst time Waiting time Turn around time\n");
```

```
// Calculate total waiting time and total turn around time
  for (int i = 0; i < n; i++) {
    total_wt = total_wt + wt[i];
    total_tat = total_tat + tat[i];
     printf(" %d ", processes[i]);
     printf(" %d ", bt[i]);
     printf(" %d", wt[i]);
    printf(" %d\n", tat[i]);
  }
  float s = (float) total_wt / (float) n;
  float t = (float) total_tat / (float) n;
  printf("Average waiting time = %f", s);
  printf("\n");
  printf("Average turn around time = %f ", t);
// Driver code
int main() {
  // process id's
  int n;
  printf("Enter the number of processes: ");
  scanf("%d", &n);
  int processes[n];
  printf("Enter process id's: ");
  for (int i = 0; i < n; i++)
    scanf("%d", &processes[i]);
  // Burst time of all processes
  int burst_time[n];
```

}

```
printf("Enter burst time for each process:\n");
for (int i = 0; i < n; i++)
    scanf("%d", &burst_time[i]);
findavgTime(processes, n, burst_time);
return 0;
}</pre>
```

Output-

```
Enter the number of processes: 3
Enter process id's: 1
3
Enter burst time for each process:
5
Processes Burst time Waiting time Turn around time
        10
                0
                      10
 1
        5
               10
                      15
 2
 3
        8
               15
                      23
Average waiting time = 8.333333
Average turn around time = 16.000000
```