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/*rr*/
#include <stdio.h>
int main() {
  int n;
  printf("Enter Total Number of Processes: ");
  scanf("%d", &n);
  int wait_time = 0, ta_time = 0;
  int burst_time[n], remaining_burst_time[n];
  int time slice;
  for (int i = 0; i < n; i++) {
    printf("Enter Burst Time for Process %d: ", i + 1);
    scanf("%d", &burst_time[i]);
    remaining_burst_time[i] = burst_time[i];
  }
  printf("Enter Time Slice (Quantum): ");
  scanf("%d", &time_slice);
  int total_time = 0;
  int completed_processes = 0;
  printf("\nProcess ID\tBurst Time\tTurnaround Time\tWaiting Time\n");
  int current_process = 0;
  while (completed_processes < n) {
    if (remaining_burst_time[current_process] > 0) {
      int execution_time;
      if (remaining_burst_time[current_process] > time_slice) {
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execution_time = time_slice;

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} else {
      execution_time = remaining_burst_time[current_process];
    }
    total_time += execution_time;
    remaining_burst_time[current_process] -= execution_time;
    if (remaining_burst_time[current_process] == 0) {
      completed_processes++;
      int turnaround_time = total_time;
      int waiting_time = turnaround_time - burst_time[current_process];
      printf("%d\t\t%d\t\t%d\t\t%d\n", current_process + 1, burst_time[current_process],
          turnaround_time, waiting_time);
      wait_time += waiting_time;
      ta_time += turnaround_time;
    }
    // Move to the next process in a circular manner
    current_process = (current_process + 1) % n;
  } else {
    // If the process has already completed, move to the next process
    current_process = (current_process + 1) % n;
 }
float average_wait_time = (float)wait_time / n;
float average_turnaround_time = (float)ta_time / n;
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}

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printf("\nAverage Waiting Time: %f", average_wait_time);
printf("\nAverage Turnaround Time: %f\n", average_turnaround_time);
return 0;
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}

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[] Advertisement
                                                                                                                   Enter Total Number of Processes: 3
Enter Burst Time for Process 1: 24
Enter Burst Time for Process 2: 3
Enter Burst Time for Process 3: 3
Enter Burst Time for Process 3: 3
Enter Time Slice (Quantum): 4
Process ID Burst Time Turnaround Time Waiting Time
                          else {
    execution_time = remaining_burst_time[current_process];
                     total_time += execution_time;
remaining_burst_time[current_process] -= execution_time;
                    if (remaining_burst_time[current_process] == θ) {
   completed_processes++;
                          int turnaround_time = total_time;
int waiting_time = turnaround_time
burst_time[current_process];
                                                                                                                   Average Waiting Time: 5.666667
Average Turnaround Time: 15.666667
                          wait_time += waiting_time;
ta_time += turnaround_time;
                 // Move to the next process in a circular mann
current_process = (current_process + 1) % n;
} else (
// If the process has already completed, move
                      // If the process has already completed, move
current_process = (current_process + 1) % n;
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```