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100.
Assembly line schedule
Aim: To determine the assembly line schedule.
Program:
def assembly line schedule(station times, entry times, exit times,
transfer times):
  num stations = len(station times[0])
  num lines = len(station times)
  T1 = [0] * num stations
  T2 = [0] * num stations
  T1[0] = entry_times[0] + station_times[0][0]
  T2[0] = entry times[1] + station times[1][0]
  for i in range(1, num_stations):
    T1[i] = min(T1[i-1] + station_times[0][i], T2[i-1] + transfer_times[1][i] +
station_times[0][i])
    T2[i] = min(T2[i-1] + station times[1][i], T1[i-1] + transfer times[0][i] +
station_times[1][i])
  return min(T1[num stations - 1] + exit times[0], T2[num stations - 1] +
exit times[1])
# Example input data
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station times = [[4, 5, 3, 2], [2, 10, 1, 4]]

entry_times = [10, 12]

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exit_times = [18, 7]
transfer_times = [[0, 7, 4, 5], [0, 9, 2, 8]]
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print(assembly_line_schedule(station_times, entry_times, exit_times,
transfer_times))

OUTPUT:

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=== Code Execution Successful ===
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Time complexity:O(n)