processes = [(1, 3, 5), (2, 5, 3), (3, 1, 6), (4, 2, 5)]

n = len(processes)

completed = []

completion\_time = []

turnaround\_time = []

waiting\_time = []

current\_time = 0

processes.sort(key=lambda x: x[1])

remaining = processes.copy()

while remaining:

available = [p for p in remaining if p[1] <= current\_time]

if not available:

current\_time = remaining[0][1]

continue

shortest = min(available, key=lambda x: x[2])

remaining.remove(shortest)

pid, at, bt = shortest

start\_time = current\_time

current\_time += bt

ct = current\_time

tat = ct - at

wt = tat - bt

completed.append(shortest)

completion\_time.append(ct)

turnaround\_time.append(tat)

waiting\_time.append(wt)

print("PID\tArrivalTime\tBurstTime\tTurnAroundTime\tCompletionTime\tWaitingTime")

for i in range(n):

pid, at, bt = completed[i]

print(f"{pid}\t{at}\t\t{bt}\t\t{turnaround\_time[i]}\t\t{completion\_time[i]}\t\t{waiting\_time[i]}")