

(base) mertcolakoglu@Mert-MacBook-Pro

```
220316081_MertÇolakoğlu_210316082_EmrahTunç_210316084_BinnurSöztutar % gcc -o  
220316081_MertÇolakoğlu_210316082_EmrahTunç_210316084_BinnurSöztutar  
220316081_MertÇolakoğlu_210316082_EmrahTunç_210316084_BinnurSöztutar.c -lpthread
```

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```
220316081_MertÇolakoğlu_210316082_EmrahTunç_210316084_BinnurSöztutar %  
./220316081_MertÇolakoğlu_210316082_EmrahTunç_210316084_BinnurSöztutar
```

FERRY TRANSPORTATION SYSTEM SIMULATION

Simulation parameters:

- Two city sides connected by a ferry route
- One ferry with capacity of 20 quotas
- 12 cars (1 quota each), 10 minibuses (2 quotas each), 8 trucks (3 quotas each)
- 2 toll booths on each side

Starting simulation...

Ferry docked at Side_B

Simulation initialized. Ferry starts at Side_B

Creating vehicles at Side_B (ferry's starting location)

CAR_1 (1 quota) arrived at Side_B and joined the queue

CAR_2 (1 quota) arrived at Side_B and joined the queue

CAR_3 (1 quota) arrived at Side_B and joined the queue

CAR_4 (1 quota) arrived at Side_B and joined the queue

CAR_5 (1 quota) arrived at Side_B and joined the queue

CAR_6 (1 quota) arrived at Side_B and joined the queue

CAR_7 (1 quota) arrived at Side_B and joined the queue

CAR_8 (1 quota) arrived at Side_B and joined the queue

CAR_9 (1 quota) arrived at Side_B and joined the queue

CAR_10 (1 quota) arrived at Side_B and joined the queue

CAR_11 (1 quota) arrived at Side_B and joined the queue

CAR_12 (1 quota) arrived at Side_B and joined the queue

MINIBUS_13 (2 quota) arrived at Side_B and joined the queue

MINIBUS_14 (2 quota) arrived at Side_B and joined the queue

MINIBUS_15 (2 quota) arrived at Side_B and joined the queue

MINIBUS_16 (2 quota) arrived at Side_B and joined the queue

MINIBUS_17 (2 quota) arrived at Side_B and joined the queue

MINIBUS_18 (2 quota) arrived at Side_B and joined the queue

MINIBUS_19 (2 quota) arrived at Side_B and joined the queue

MINIBUS_20 (2 quota) arrived at Side_B and joined the queue

MINIBUS_21 (2 quota) arrived at Side_B and joined the queue

MINIBUS_22 (2 quota) arrived at Side_B and joined the queue

TRUCK_23 (3 quota) arrived at Side_B and joined the queue

TRUCK_24 (3 quota) arrived at Side_B and joined the queue

TRUCK_25 (3 quota) arrived at Side_B and joined the queue

TRUCK_26 (3 quota) arrived at Side_B and joined the queue

TRUCK_27 (3 quota) arrived at Side_B and joined the queue

TRUCK_28 (3 quota) arrived at Side_B and joined the queue

TRUCK_29 (3 quota) arrived at Side_B and joined the queue

TRUCK_30 (3 quota) arrived at Side_B and joined the queue

Created and randomized 30 vehicles at Side_B

CAR_1 (1 quota) is being processed at Side_B_Booth_1

TRUCK_25 (3 quota) is being processed at Side_B_Booth_2

Simulation running (max 180 seconds)...

Ferry remains docked at Side_B - no vehicles to transport

TRUCK_25 (3 quota) completed toll processing at Side_B_Booth_1

TRUCK_25 (3 quota) entered the waiting area at Side_B

MINIBUS_13 (2 quota) is being processed at Side_B_Booth_2

TRUCK_25 (3 quota) boarded the ferry for outbound journey (Used: 3/20, Remaining: 17)

- TRUCK_25 waiting times: In queue: 0.0 sec, In waiting area: 0.0 sec, Total: 0.0 sec

Waiting for 6 more vehicles to reach full capacity before departing (3/20 quotas filled)

Ferry remains docked at Side_B - no vehicles to transport

CAR_1 (1 quota) completed toll processing at Side_B_Booth_1

CAR_1 (1 quota) entered the waiting area at Side_B

MINIBUS_15 (2 quota) is being processed at Side_B_Booth_1

MINIBUS_13 (2 quota) completed toll processing at Side_B_Booth_1

MINIBUS_13 (2 quota) entered the waiting area at Side_B

MINIBUS_20 (2 quota) is being processed at Side_B_Booth_2

MINIBUS_20 (2 quota) completed toll processing at Side_B_Booth_1

MINIBUS_20 (2 quota) entered the waiting area at Side_B

MINIBUS_17 (2 quota) is being processed at Side_B_Booth_2

CAR_1 (1 quota) boarded the ferry for outbound journey (Used: 4/20, Remaining: 16)

- CAR_1 waiting times: In queue: 0.0 sec, In waiting area: 1.0 sec, Total: 1.0 sec

MINIBUS_13 (2 quota) boarded the ferry for outbound journey (Used: 6/20, Remaining: 14)

- MINIBUS_13 waiting times: In queue: 1.0 sec, In waiting area: 1.0 sec, Total: 2.0 sec

MINIBUS_20 (2 quota) boarded the ferry for outbound journey (Used: 8/20, Remaining: 12)

- MINIBUS_20 waiting times: In queue: 1.0 sec, In waiting area: 0.0 sec, Total: 1.0 sec

Waiting for 4 more vehicles to reach full capacity before departing (8/20 quotas filled)

Ferry remains docked at Side_B - no vehicles to transport

MINIBUS_15 (2 quota) completed toll processing at Side_B_Booth_1

MINIBUS_15 (2 quota) entered the waiting area at Side_B

CAR_3 (1 quota) is being processed at Side_B_Booth_1

MINIBUS_17 (2 quota) completed toll processing at Side_B_Booth_1

MINIBUS_17 (2 quota) entered the waiting area at Side_B

CAR_7 (1 quota) is being processed at Side_B_Booth_2

MINIBUS_15 (2 quota) boarded the ferry for outbound journey (Used: 10/20, Remaining: 10)

- MINIBUS_15 waiting times: In queue: 1.0 sec, In waiting area: 0.0 sec, Total: 1.0 sec

MINIBUS_17 (2 quota) boarded the ferry for outbound journey (Used: 12/20, Remaining: 8)

- MINIBUS_17 waiting times: In queue: 2.0 sec, In waiting area: 0.0 sec, Total: 2.0 sec

Waiting for 3 more vehicles to reach full capacity before departing (12/20 quotas filled)

Ferry remains docked at Side_B - no vehicles to transport

CAR_3 (1 quota) completed toll processing at Side_B_Booth_1

CAR_3 (1 quota) entered the waiting area at Side_B

TRUCK_29 (3 quota) is being processed at Side_B_Booth_1

CAR_7 (1 quota) completed toll processing at Side_B_Booth_1

CAR_7 (1 quota) entered the waiting area at Side_B

TRUCK_30 (3 quota) is being processed at Side_B_Booth_2

TRUCK_29 (3 quota) completed toll processing at Side_B_Booth_1

TRUCK_29 (3 quota) entered the waiting area at Side_B

CAR_4 (1 quota) is being processed at Side_B_Booth_1

CAR_3 (1 quota) boarded the ferry for outbound journey (Used: 13/20, Remaining: 7)

- CAR_3 waiting times: In queue: 3.0 sec, In waiting area: 1.0 sec, Total: 4.0 sec

CAR_7 (1 quota) boarded the ferry for outbound journey (Used: 14/20, Remaining: 6)

- CAR_7 waiting times: In queue: 3.0 sec, In waiting area: 0.0 sec, Total: 3.0 sec

TRUCK_29 (3 quota) boarded the ferry for outbound journey (Used: 17/20, Remaining: 3)

- TRUCK_29 waiting times: In queue: 3.0 sec, In waiting area: 0.0 sec, Total: 3.0 sec

Waiting for 1 more vehicles to reach full capacity before departing (17/20 quotas filled)

Ferry remains docked at Side_B - no vehicles to transport

TRUCK_30 (3 quota) completed toll processing at Side_B_Booth_1

TRUCK_30 (3 quota) entered the waiting area at Side_B

MINIBUS_14 (2 quota) is being processed at Side_B_Booth_2

TRUCK_30 (3 quota) boarded the ferry for outbound journey (Used: 20/20, Remaining: 0)

- TRUCK_30 waiting times: In queue: 4.0 sec, In waiting area: 0.0 sec, Total: 4.0 sec

Ferry is at full capacity and ready to depart

CAR_4 (1 quota) completed toll processing at Side_B_Booth_1

CAR_4 (1 quota) entered the waiting area at Side_B

MINIBUS_22 (2 quota) is being processed at Side_B_Booth_1

Ferry departing from Side_B to Side_A (Trip #1)

MINIBUS_14 (2 quota) completed toll processing at Side_B_Booth_1

MINIBUS_14 (2 quota) entered the waiting area at Side_B

MINIBUS_19 (2 quota) is being processed at Side_B_Booth_2

MINIBUS_22 (2 quota) completed toll processing at Side_B_Booth_1

MINIBUS_22 (2 quota) entered the waiting area at Side_B

CAR_9 (1 quota) is being processed at Side_B_Booth_1

MINIBUS_19 (2 quota) completed toll processing at Side_B_Booth_1

MINIBUS_19 (2 quota) entered the waiting area at Side_B

MINIBUS_21 (2 quota) is being processed at Side_B_Booth_2

CAR_9 (1 quota) completed toll processing at Side_B_Booth_1

CAR_9 (1 quota) entered the waiting area at Side_B

CAR_6 (1 quota) is being processed at Side_B_Booth_1

MINIBUS_21 (2 quota) completed toll processing at Side_B_Booth_1

MINIBUS_21 (2 quota) entered the waiting area at Side_B

MINIBUS_16 (2 quota) is being processed at Side_B_Booth_2

MINIBUS_16 (2 quota) completed toll processing at Side_B_Booth_1

MINIBUS_16 (2 quota) entered the waiting area at Side_B

TRUCK_27 (3 quota) is being processed at Side_B_Booth_2

CAR_6 (1 quota) completed toll processing at Side_B_Booth_1

CAR_6 (1 quota) entered the waiting area at Side_B

TRUCK_23 (3 quota) is being processed at Side_B_Booth_1

TRUCK_27 (3 quota) completed toll processing at Side_B_Booth_1

TRUCK_27 (3 quota) entered the waiting area at Side_B

TRUCK_24 (3 quota) is being processed at Side_B_Booth_2

Ferry docked at Side_A

Trip #1 completed: Side_B -> Side_A

Unloading 10 vehicles at Side_A

- TRUCK_25 transported (outbound): Total time: 10.0 sec, Ferry ride: 9.0 sec

TRUCK_25 will spend 28 seconds at Side_A before returning to Side_B

- CAR_1 transported (outbound): Total time: 10.0 sec, Ferry ride: 8.0 sec

CAR_1 will spend 26 seconds at Side_A before returning to Side_B

- MINIBUS_13 transported (outbound): Total time: 10.0 sec, Ferry ride: 8.0 sec

MINIBUS_13 will spend 17 seconds at Side_A before returning to Side_B

- MINIBUS_20 transported (outbound): Total time: 10.0 sec, Ferry ride: 8.0 sec

MINIBUS_20 will spend 23 seconds at Side_A before returning to Side_B

- MINIBUS_15 transported (outbound): Total time: 10.0 sec, Ferry ride: 7.0 sec

MINIBUS_15 will spend 19 seconds at Side_A before returning to Side_B

- MINIBUS_17 transported (outbound): Total time: 10.0 sec, Ferry ride: 7.0 sec

MINIBUS_17 will spend 28 seconds at Side_A before returning to Side_B

- CAR_3 transported (outbound): Total time: 10.0 sec, Ferry ride: 6.0 sec

CAR_3 will spend 25 seconds at Side_A before returning to Side_B

- CAR_7 transported (outbound): Total time: 10.0 sec, Ferry ride: 6.0 sec

CAR_7 will spend 29 seconds at Side_A before returning to Side_B

- TRUCK_29 transported (outbound): Total time: 10.0 sec, Ferry ride: 6.0 sec

TRUCK_29 will spend 24 seconds at Side_A before returning to Side_B

- TRUCK_30 transported (outbound): Total time: 10.0 sec, Ferry ride: 5.0 sec

TRUCK_30 will spend 14 seconds at Side_A before returning to Side_B

TRUCK_24 (3 quota) completed toll processing at Side_B_Booth_1

TRUCK_24 (3 quota) entered the waiting area at Side_B

CAR_2 (1 quota) is being processed at Side_B_Booth_2

TRUCK_23 (3 quota) completed toll processing at Side_B_Booth_1

TRUCK_23 (3 quota) entered the waiting area at Side_B

TRUCK_26 (3 quota) is being processed at Side_B_Booth_1

CAR_2 (1 quota) completed toll processing at Side_B_Booth_1

CAR_2 (1 quota) entered the waiting area at Side_B

CAR_5 (1 quota) is being processed at Side_B_Booth_2

TRUCK_26 (3 quota) completed toll processing at Side_B_Booth_1

TRUCK_26 (3 quota) entered the waiting area at Side_B

TRUCK_28 (3 quota) is being processed at Side_B_Booth_1

CAR_5 (1 quota) completed toll processing at Side_B_Booth_1

CAR_5 (1 quota) entered the waiting area at Side_B

CAR_10 (1 quota) is being processed at Side_B_Booth_2

TRUCK_28 (3 quota) completed toll processing at Side_B_Booth_1

TRUCK_28 (3 quota) entered the waiting area at Side_B

CAR_12 (1 quota) is being processed at Side_B_Booth_1

CAR_10 (1 quota) completed toll processing at Side_B_Booth_1

CAR_10 (1 quota) entered the waiting area at Side_B

CAR_8 (1 quota) is being processed at Side_B_Booth_2

CAR_12 (1 quota) completed toll processing at Side_B_Booth_1

CAR_12 (1 quota) entered the waiting area at Side_B

MINIBUS_18 (2 quota) is being processed at Side_B_Booth_1

MINIBUS_18 (2 quota) completed toll processing at Side_B_Booth_1

MINIBUS_18 (2 quota) entered the waiting area at Side_B

CAR_11 (1 quota) is being processed at Side_B_Booth_1

CAR_8 (1 quota) completed toll processing at Side_B_Booth_1

CAR_8 (1 quota) entered the waiting area at Side_B

CAR_11 (1 quota) completed toll processing at Side_B_Booth_1

CAR_11 (1 quota) entered the waiting area at Side_B

Ferry has been completely unloaded

No vehicles at Side_A, but 20 vehicles waiting at Side_B. Ferry departing empty.

Ferry departing from Side_A to Side_B (Trip #2)

Ferry docked at Side_B

Trip #2 completed: Side_A -> Side_B

First outbound trip completed. Vehicles will spend some time at Side_B before returning.

CAR_4 (1 quota) boarded the ferry for outbound journey (Used: 1/20, Remaining: 19)

- CAR_4 waiting times: In queue: 4.0 sec, In waiting area: 14.0 sec, Total: 18.0 sec

MINIBUS_14 (2 quota) boarded the ferry for outbound journey (Used: 3/20, Remaining: 17)

- MINIBUS_14 waiting times: In queue: 5.0 sec, In waiting area: 13.0 sec, Total: 18.0 sec

MINIBUS_22 (2 quota) boarded the ferry for outbound journey (Used: 5/20, Remaining: 15)

- MINIBUS_22 waiting times: In queue: 5.0 sec, In waiting area: 13.0 sec, Total: 18.0 sec

MINIBUS_19 (2 quota) boarded the ferry for outbound journey (Used: 7/20, Remaining: 13)

- MINIBUS_19 waiting times: In queue: 6.0 sec, In waiting area: 12.0 sec, Total: 18.0 sec

CAR_9 (1 quota) boarded the ferry for outbound journey (Used: 8/20, Remaining: 12)

- CAR_9 waiting times: In queue: 6.0 sec, In waiting area: 12.0 sec, Total: 18.0 sec

MINIBUS_21 (2 quota) boarded the ferry for outbound journey (Used: 10/20, Remaining: 10)

- MINIBUS_21 waiting times: In queue: 7.0 sec, In waiting area: 11.0 sec, Total: 18.0 sec

MINIBUS_16 (2 quota) boarded the ferry for outbound journey (Used: 12/20, Remaining: 8)

- MINIBUS_16 waiting times: In queue: 8.0 sec, In waiting area: 11.0 sec, Total: 19.0 sec

CAR_6 (1 quota) boarded the ferry for outbound journey (Used: 13/20, Remaining: 7)

- CAR_6 waiting times: In queue: 7.0 sec, In waiting area: 10.0 sec, Total: 17.0 sec

TRUCK_27 (3 quota) boarded the ferry for outbound journey (Used: 16/20, Remaining: 4)

- TRUCK_27 waiting times: In queue: 8.0 sec, In waiting area: 10.0 sec, Total: 18.0 sec

TRUCK_24 (3 quota) boarded the ferry for outbound journey (Used: 19/20, Remaining: 1)

- TRUCK_24 waiting times: In queue: 9.0 sec, In waiting area: 9.0 sec, Total: 18.0 sec

CAR_2 (1 quota) boarded the ferry for outbound journey (Used: 20/20, Remaining: 0)

- CAR_2 waiting times: In queue: 10.0 sec, In waiting area: 9.0 sec, Total: 19.0 sec

Unloading vehicles before first empty return trip

Unloading 11 vehicles at Side_B

- CAR_4 transported (outbound): Total time: 20.0 sec, Ferry ride: 1.0 sec

CAR_4 will spend 21 seconds at Side_B before returning to Side_A

- MINIBUS_14 transported (outbound): Total time: 20.0 sec, Ferry ride: 1.0 sec

MINIBUS_14 will spend 18 seconds at Side_B before returning to Side_A

- MINIBUS_22 transported (outbound): Total time: 20.0 sec, Ferry ride: 1.0 sec

MINIBUS_22 will spend 27 seconds at Side_B before returning to Side_A

- MINIBUS_19 transported (outbound): Total time: 20.0 sec, Ferry ride: 1.0 sec

MINIBUS_19 will spend 17 seconds at Side_B before returning to Side_A

- CAR_9 transported (outbound): Total time: 20.0 sec, Ferry ride: 1.0 sec

CAR_9 will spend 19 seconds at Side_B before returning to Side_A

- MINIBUS_21 transported (outbound): Total time: 20.0 sec, Ferry ride: 1.0 sec

MINIBUS_21 will spend 27 seconds at Side_B before returning to Side_A

- MINIBUS_16 transported (outbound): Total time: 20.0 sec, Ferry ride: 1.0 sec

MINIBUS_16 will spend 10 seconds at Side_B before returning to Side_A

- CAR_6 transported (outbound): Total time: 20.0 sec, Ferry ride: 1.0 sec

CAR_6 will spend 11 seconds at Side_B before returning to Side_A

- TRUCK_27 transported (outbound): Total time: 20.0 sec, Ferry ride: 1.0 sec

TRUCK_27 will spend 18 seconds at Side_B before returning to Side_A

- TRUCK_24 transported (outbound): Total time: 20.0 sec, Ferry ride: 1.0 sec

TRUCK_24 will spend 26 seconds at Side_B before returning to Side_A

- CAR_2 transported (outbound): Total time: 20.0 sec, Ferry ride: 1.0 sec

CAR_2 will spend 30 seconds at Side_B before returning to Side_A

Ferry has been completely unloaded

First return trip: Ferry returning empty from Side_B to Side_A

After spending 14 seconds at Side_A, TRUCK_30 is now joining the return queue

TRUCK_30 (3 quota) is being processed at Side_A_Booth_1

Ferry docked at Side_A

Trip #3 completed: Side_B -> Side_A

Unloading 0 vehicles at Side_A

Ferry has been completely unloaded

No vehicles at Side_A, but 9 vehicles waiting at Side_B. Ferry departing empty.

Ferry departing from Side_A to Side_B (Trip #4)

TRUCK_30 (3 quota) completed toll processing at Side_A_Booth_1

TRUCK_30 (3 quota) entered the waiting area at Side_A

After spending 17 seconds at Side_A, MINIBUS_13 is now joining the return queue

MINIBUS_13 (2 quota) is being processed at Side_A_Booth_2

MINIBUS_13 (2 quota) completed toll processing at Side_A_Booth_1

MINIBUS_13 (2 quota) entered the waiting area at Side_A

Ferry docked at Side_B

Trip #4 completed: Side_A -> Side_B

TRUCK_23 (3 quota) boarded the ferry for outbound journey (Used: 3/20, Remaining: 17)

- TRUCK_23 waiting times: In queue: 9.0 sec, In waiting area: 23.0 sec, Total: 32.0 sec

TRUCK_26 (3 quota) boarded the ferry for outbound journey (Used: 6/20, Remaining: 14)

- TRUCK_26 waiting times: In queue: 10.0 sec, In waiting area: 22.0 sec, Total: 32.0 sec

CAR_5 (1 quota) boarded the ferry for outbound journey (Used: 7/20, Remaining: 13)

- CAR_5 waiting times: In queue: 10.0 sec, In waiting area: 22.0 sec, Total: 32.0 sec

TRUCK_28 (3 quota) boarded the ferry for outbound journey (Used: 10/20, Remaining: 10)

- TRUCK_28 waiting times: In queue: 11.0 sec, In waiting area: 22.0 sec, Total: 33.0 sec

CAR_10 (1 quota) boarded the ferry for outbound journey (Used: 11/20, Remaining: 9)

- CAR_10 waiting times: In queue: 11.0 sec, In waiting area: 21.0 sec, Total: 32.0 sec

CAR_12 (1 quota) boarded the ferry for outbound journey (Used: 12/20, Remaining: 8)

- CAR_12 waiting times: In queue: 11.0 sec, In waiting area: 21.0 sec, Total: 32.0 sec

MINIBUS_18 (2 quota) boarded the ferry for outbound journey (Used: 14/20, Remaining: 6)

- MINIBUS_18 waiting times: In queue: 12.0 sec, In waiting area: 20.0 sec, Total: 32.0 sec

CAR_8 (1 quota) boarded the ferry for outbound journey (Used: 15/20, Remaining: 5)

- CAR_8 waiting times: In queue: 12.0 sec, In waiting area: 20.0 sec, Total: 32.0 sec

CAR_11 (1 quota) boarded the ferry for outbound journey (Used: 16/20, Remaining: 4)

- CAR_11 waiting times: In queue: 13.0 sec, In waiting area: 19.0 sec, Total: 32.0 sec

No more vehicles at current side, but vehicles waiting at other side - ferry departing

Ferry departing from Side_B to Side_A (Trip #5)

After spending 19 seconds at Side_A, MINIBUS_15 is now joining the return queue

MINIBUS_15 (2 quota) is being processed at Side_A_Booth_1

MINIBUS_15 (2 quota) completed toll processing at Side_A_Booth_1

MINIBUS_15 (2 quota) entered the waiting area at Side_A

After spending 10 seconds at Side_B, MINIBUS_16 is now joining the return queue

MINIBUS_16 (2 quota) is being processed at Side_B_Booth_1

After spending 11 seconds at Side_B, CAR_6 is now joining the return queue

CAR_6 (1 quota) is being processed at Side_B_Booth_2

Ferry docked at Side_A

Trip #5 completed: Side_B -> Side_A

Unloading 9 vehicles at Side_A

- TRUCK_23 transported (outbound): Total time: 37.0 sec, Ferry ride: 4.0 sec

TRUCK_23 will spend 15 seconds at Side_A before returning to Side_B

- TRUCK_26 transported (outbound): Total time: 37.0 sec, Ferry ride: 4.0 sec

TRUCK_26 will spend 15 seconds at Side_A before returning to Side_B

- CAR_5 transported (outbound): Total time: 37.0 sec, Ferry ride: 4.0 sec

CAR_5 will spend 21 seconds at Side_A before returning to Side_B

- TRUCK_28 transported (outbound): Total time: 37.0 sec, Ferry ride: 4.0 sec

TRUCK_28 will spend 22 seconds at Side_A before returning to Side_B

- CAR_10 transported (outbound): Total time: 37.0 sec, Ferry ride: 4.0 sec

CAR_10 will spend 19 seconds at Side_A before returning to Side_B

- CAR_12 transported (outbound): Total time: 37.0 sec, Ferry ride: 4.0 sec

CAR_12 will spend 11 seconds at Side_A before returning to Side_B

- MINIBUS_18 transported (outbound): Total time: 37.0 sec, Ferry ride: 4.0 sec

MINIBUS_18 will spend 17 seconds at Side_A before returning to Side_B

- CAR_8 transported (outbound): Total time: 37.0 sec, Ferry ride: 4.0 sec

CAR_8 will spend 30 seconds at Side_A before returning to Side_B

- CAR_11 transported (outbound): Total time: 37.0 sec, Ferry ride: 4.0 sec

CAR_11 will spend 22 seconds at Side_A before returning to Side_B

MINIBUS_16 (2 quota) completed toll processing at Side_B_Booth_1

MINIBUS_16 (2 quota) entered the waiting area at Side_B

CAR_6 (1 quota) completed toll processing at Side_B_Booth_1

CAR_6 (1 quota) entered the waiting area at Side_B

After spending 23 seconds at Side_A, MINIBUS_20 is now joining the return queue

MINIBUS_20 (2 quota) is being processed at Side_A_Booth_2

After spending 24 seconds at Side_A, TRUCK_29 is now joining the return queue

MINIBUS_20 (2 quota) completed toll processing at Side_A_Booth_1

MINIBUS_20 (2 quota) entered the waiting area at Side_A

TRUCK_29 (3 quota) is being processed at Side_A_Booth_2

TRUCK_29 (3 quota) completed toll processing at Side_A_Booth_1

TRUCK_29 (3 quota) entered the waiting area at Side_A

After spending 25 seconds at Side_A, CAR_3 is now joining the return queue

CAR_3 (1 quota) is being processed at Side_A_Booth_1

CAR_3 (1 quota) completed toll processing at Side_A_Booth_1

CAR_3 (1 quota) entered the waiting area at Side_A

After spending 26 seconds at Side_A, CAR_1 is now joining the return queue

CAR_1 (1 quota) is being processed at Side_A_Booth_1

Ferry has been completely unloaded

TRUCK_30 (3 quota) boarded the ferry for return journey (Used: 3/20, Remaining: 17)

- TRUCK_30 return waiting times: In queue: 0.0 sec, In waiting area: 12.0 sec, Total: 12.0 sec

MINIBUS_13 (2 quota) boarded the ferry for return journey (Used: 5/20, Remaining: 15)

- MINIBUS_13 return waiting times: In queue: 0.0 sec, In waiting area: 9.0 sec, Total: 9.0 sec

MINIBUS_15 (2 quota) boarded the ferry for return journey (Used: 7/20, Remaining: 13)

- MINIBUS_15 return waiting times: In queue: 0.0 sec, In waiting area: 7.0 sec, Total: 7.0 sec

MINIBUS_20 (2 quota) boarded the ferry for return journey (Used: 9/20, Remaining: 11)

- MINIBUS_20 return waiting times: In queue: 0.0 sec, In waiting area: 3.0 sec, Total: 3.0 sec

TRUCK_29 (3 quota) boarded the ferry for return journey (Used: 12/20, Remaining: 8)

- TRUCK_29 return waiting times: In queue: 0.0 sec, In waiting area: 2.0 sec, Total: 2.0 sec

CAR_3 (1 quota) boarded the ferry for return journey (Used: 13/20, Remaining: 7)

- CAR_3 return waiting times: In queue: 0.0 sec, In waiting area: 1.0 sec, Total: 1.0 sec

No vehicles at Side_A, but 2 vehicles waiting at Side_B. Ferry departing empty.

Ferry departing from Side_A to Side_B (Trip #6)

CAR_1 (1 quota) completed toll processing at Side_A_Booth_1

CAR_1 (1 quota) entered the waiting area at Side_A

After spending 17 seconds at Side_B, MINIBUS_19 is now joining the return queue

MINIBUS_19 (2 quota) is being processed at Side_B_Booth_1

After spending 28 seconds at Side_A, TRUCK_25 is now joining the return queue

After spending 28 seconds at Side_A, MINIBUS_17 is now joining the return queue

TRUCK_25 (3 quota) is being processed at Side_A_Booth_1

MINIBUS_17 (2 quota) is being processed at Side_A_Booth_2

After spending 18 seconds at Side_B, MINIBUS_14 is now joining the return queue

MINIBUS_14 (2 quota) is being processed at Side_B_Booth_2

After spending 18 seconds at Side_B, TRUCK_27 is now joining the return queue

MINIBUS_19 (2 quota) completed toll processing at Side_B_Booth_1

MINIBUS_19 (2 quota) entered the waiting area at Side_B

TRUCK_27 (3 quota) is being processed at Side_B_Booth_1

After spending 29 seconds at Side_A, CAR_7 is now joining the return queue

TRUCK_25 (3 quota) completed toll processing at Side_A_Booth_1

TRUCK_25 (3 quota) entered the waiting area at Side_A

CAR_7 (1 quota) is being processed at Side_A_Booth_1

MINIBUS_17 (2 quota) completed toll processing at Side_A_Booth_1

MINIBUS_17 (2 quota) entered the waiting area at Side_A

MINIBUS_14 (2 quota) completed toll processing at Side_B_Booth_1

MINIBUS_14 (2 quota) entered the waiting area at Side_B

After spending 19 seconds at Side_B, CAR_9 is now joining the return queue

CAR_9 (1 quota) is being processed at Side_B_Booth_2

TRUCK_27 (3 quota) completed toll processing at Side_B_Booth_1

TRUCK_27 (3 quota) entered the waiting area at Side_B

Ferry docked at Side_B

Trip #6 completed: Side_A -> Side_B

Waiting for 3 more vehicles to reach full capacity before departing (13/20 quotas filled)

MINIBUS_16 (2 quota) boarded the ferry for return journey (Used: 15/20, Remaining: 5)

- MINIBUS_16 return waiting times: In queue: 0.0 sec, In waiting area: 10.0 sec, Total: 10.0 sec

CAR_6 (1 quota) boarded the ferry for return journey (Used: 16/20, Remaining: 4)

- CAR_6 return waiting times: In queue: 0.0 sec, In waiting area: 9.0 sec, Total: 9.0 sec

MINIBUS_19 (2 quota) boarded the ferry for return journey (Used: 18/20, Remaining: 2)

- MINIBUS_19 return waiting times: In queue: 0.0 sec, In waiting area: 3.0 sec, Total: 3.0 sec

MINIBUS_14 (2 quota) boarded the ferry for return journey (Used: 20/20, Remaining: 0)

- MINIBUS_14 return waiting times: In queue: 0.0 sec, In waiting area: 2.0 sec, Total: 2.0 sec

Ferry is at full capacity and ready to depart

CAR_7 (1 quota) completed toll processing at Side_A_Booth_1

CAR_7 (1 quota) entered the waiting area at Side_A

CAR_9 (1 quota) completed toll processing at Side_B_Booth_1

CAR_9 (1 quota) entered the waiting area at Side_B

Ferry departing from Side_B to Side_A (Trip #7)

After spending 21 seconds at Side_B, CAR_4 is now joining the return queue

CAR_4 (1 quota) is being processed at Side_B_Booth_1

CAR_4 (1 quota) completed toll processing at Side_B_Booth_1

CAR_4 (1 quota) entered the waiting area at Side_B

Ferry docked at Side_A

Trip #7 completed: Side_B -> Side_A

Unloading 10 vehicles at Side_A

- TRUCK_30 completed round trip: Outbound: 10.0 sec, Return: 21.0 sec, Total: 50.0 sec

- MINIBUS_13 completed round trip: Outbound: 10.0 sec, Return: 18.0 sec, Total: 50.0 sec

- MINIBUS_15 completed round trip: Outbound: 10.0 sec, Return: 16.0 sec, Total: 50.0 sec

- MINIBUS_20 completed round trip: Outbound: 10.0 sec, Return: 12.0 sec, Total: 50.0 sec

- TRUCK_29 completed round trip: Outbound: 10.0 sec, Return: 11.0 sec, Total: 50.0 sec

- CAR_3 completed round trip: Outbound: 10.0 sec, Return: 10.0 sec, Total: 50.0 sec

- MINIBUS_16 completed round trip: Outbound: 20.0 sec, Return: 15.0 sec, Total: 50.0 sec

- CAR_6 completed round trip: Outbound: 20.0 sec, Return: 14.0 sec, Total: 50.0 sec

- MINIBUS_19 completed round trip: Outbound: 20.0 sec, Return: 8.0 sec, Total: 50.0 sec

- MINIBUS_14 completed round trip: Outbound: 20.0 sec, Return: 7.0 sec, Total: 50.0 sec

After spending 26 seconds at Side_B, TRUCK_24 is now joining the return queue

TRUCK_24 (3 quota) is being processed at Side_B_Booth_1

After spending 11 seconds at Side_A, CAR_12 is now joining the return queue

CAR_12 (1 quota) is being processed at Side_A_Booth_2

After spending 27 seconds at Side_B, MINIBUS_21 is now joining the return queue

After spending 27 seconds at Side_B, MINIBUS_22 is now joining the return queue

MINIBUS_21 (2 quota) is being processed at Side_B_Booth_2

TRUCK_24 (3 quota) completed toll processing at Side_B_Booth_1

TRUCK_24 (3 quota) entered the waiting area at Side_B

MINIBUS_22 (2 quota) is being processed at Side_B_Booth_1

CAR_12 (1 quota) completed toll processing at Side_A_Booth_1

CAR_12 (1 quota) entered the waiting area at Side_A

MINIBUS_21 (2 quota) completed toll processing at Side_B_Booth_1

MINIBUS_21 (2 quota) entered the waiting area at Side_B

MINIBUS_22 (2 quota) completed toll processing at Side_B_Booth_1

MINIBUS_22 (2 quota) entered the waiting area at Side_B

Ferry has been completely unloaded

CAR_1 (1 quota) boarded the ferry for return journey (Used: 1/20, Remaining: 19)

- CAR_1 return waiting times: In queue: 0.0 sec, In waiting area: 14.0 sec, Total: 14.0 sec

TRUCK_25 (3 quota) boarded the ferry for return journey (Used: 4/20, Remaining: 16)

- TRUCK_25 return waiting times: In queue: 0.0 sec, In waiting area: 12.0 sec, Total: 12.0 sec

MINIBUS_17 (2 quota) boarded the ferry for return journey (Used: 6/20, Remaining: 14)

- MINIBUS_17 return waiting times: In queue: 0.0 sec, In waiting area: 12.0 sec, Total: 12.0 sec

CAR_7 (1 quota) boarded the ferry for return journey (Used: 7/20, Remaining: 13)

- CAR_7 return waiting times: In queue: 0.0 sec, In waiting area: 11.0 sec, Total: 11.0 sec

CAR_12 (1 quota) boarded the ferry for return journey (Used: 8/20, Remaining: 12)

- CAR_12 return waiting times: In queue: 0.0 sec, In waiting area: 3.0 sec, Total: 3.0 sec

No more vehicles at current side, but vehicles waiting at other side - ferry departing

After spending 30 seconds at Side_B, CAR_2 is now joining the return queue

CAR_2 (1 quota) is being processed at Side_B_Booth_2

Ferry departing from Side_A to Side_B (Trip #8)

CAR_2 (1 quota) completed toll processing at Side_B_Booth_1

CAR_2 (1 quota) entered the waiting area at Side_B

After spending 15 seconds at Side_A, TRUCK_26 is now joining the return queue

After spending 15 seconds at Side_A, TRUCK_23 is now joining the return queue

TRUCK_26 (3 quota) is being processed at Side_A_Booth_1

TRUCK_23 (3 quota) is being processed at Side_A_Booth_2

TRUCK_23 (3 quota) completed toll processing at Side_A_Booth_1

TRUCK_23 (3 quota) entered the waiting area at Side_A

TRUCK_26 (3 quota) completed toll processing at Side_A_Booth_1

TRUCK_26 (3 quota) entered the waiting area at Side_A

After spending 17 seconds at Side_A, MINIBUS_18 is now joining the return queue

MINIBUS_18 (2 quota) is being processed at Side_A_Booth_1

MINIBUS_18 (2 quota) completed toll processing at Side_A_Booth_1

MINIBUS_18 (2 quota) entered the waiting area at Side_A

Ferry docked at Side_B

Trip #8 completed: Side_A -> Side_B

Unloading 5 vehicles at Side_B

- CAR_1 completed round trip: Outbound: 10.0 sec, Return: 18.0 sec, Total: 59.0 sec
- TRUCK_25 completed round trip: Outbound: 10.0 sec, Return: 16.0 sec, Total: 59.0 sec
- MINIBUS_17 completed round trip: Outbound: 10.0 sec, Return: 16.0 sec, Total: 59.0 sec
- CAR_7 completed round trip: Outbound: 10.0 sec, Return: 15.0 sec, Total: 59.0 sec
- CAR_12 completed round trip: Outbound: 37.0 sec, Return: 7.0 sec, Total: 59.0 sec

After spending 19 seconds at Side_A, CAR_10 is now joining the return queue

CAR_10 (1 quota) is being processed at Side_A_Booth_2

CAR_10 (1 quota) completed toll processing at Side_A_Booth_1

CAR_10 (1 quota) entered the waiting area at Side_A

Ferry has been completely unloaded

TRUCK_27 (3 quota) boarded the ferry for return journey (Used: 3/20, Remaining: 17)

- TRUCK_27 return waiting times: In queue: 0.0 sec, In waiting area: 19.0 sec, Total: 19.0 sec

CAR_9 (1 quota) boarded the ferry for return journey (Used: 4/20, Remaining: 16)

- CAR_9 return waiting times: In queue: 0.0 sec, In waiting area: 18.0 sec, Total: 18.0 sec

CAR_4 (1 quota) boarded the ferry for return journey (Used: 5/20, Remaining: 15)

- CAR_4 return waiting times: In queue: 0.0 sec, In waiting area: 16.0 sec, Total: 16.0 sec

TRUCK_24 (3 quota) boarded the ferry for return journey (Used: 8/20, Remaining: 12)

- TRUCK_24 return waiting times: In queue: 0.0 sec, In waiting area: 11.0 sec, Total: 11.0 sec

MINIBUS_21 (2 quota) boarded the ferry for return journey (Used: 10/20, Remaining: 10)

- MINIBUS_21 return waiting times: In queue: 0.0 sec, In waiting area: 10.0 sec, Total: 10.0 sec

MINIBUS_22 (2 quota) boarded the ferry for return journey (Used: 12/20, Remaining: 8)

- MINIBUS_22 return waiting times: In queue: 1.0 sec, In waiting area: 9.0 sec, Total: 10.0 sec

CAR_2 (1 quota) boarded the ferry for return journey (Used: 13/20, Remaining: 7)

- CAR_2 return waiting times: In queue: 0.0 sec, In waiting area: 7.0 sec, Total: 7.0 sec

After spending 21 seconds at Side_A, CAR_5 is now joining the return queue

CAR_5 (1 quota) is being processed at Side_A_Booth_1

Ferry departing from Side_B to Side_A (Trip #9)

After spending 22 seconds at Side_A, CAR_11 is now joining the return queue

After spending 22 seconds at Side_A, TRUCK_28 is now joining the return queue

CAR_11 (1 quota) is being processed at Side_A_Booth_2

CAR_5 (1 quota) completed toll processing at Side_A_Booth_1

CAR_5 (1 quota) entered the waiting area at Side_A

TRUCK_28 (3 quota) is being processed at Side_A_Booth_1

CAR_11 (1 quota) completed toll processing at Side_A_Booth_1

CAR_11 (1 quota) entered the waiting area at Side_A

TRUCK_28 (3 quota) completed toll processing at Side_A_Booth_1

TRUCK_28 (3 quota) entered the waiting area at Side_A

Ferry docked at Side_A

Trip #9 completed: Side_B -> Side_A

Unloading 7 vehicles at Side_A

- TRUCK_27 completed round trip: Outbound: 20.0 sec, Return: 23.0 sec, Total: 66.0 sec
- CAR_9 completed round trip: Outbound: 20.0 sec, Return: 22.0 sec, Total: 66.0 sec
- CAR_4 completed round trip: Outbound: 20.0 sec, Return: 20.0 sec, Total: 66.0 sec
- TRUCK_24 completed round trip: Outbound: 20.0 sec, Return: 15.0 sec, Total: 66.0 sec
- MINIBUS_21 completed round trip: Outbound: 20.0 sec, Return: 14.0 sec, Total: 66.0 sec
- MINIBUS_22 completed round trip: Outbound: 20.0 sec, Return: 14.0 sec, Total: 66.0 sec
- CAR_2 completed round trip: Outbound: 20.0 sec, Return: 11.0 sec, Total: 66.0 sec

Ferry has been completely unloaded

TRUCK_23 (3 quota) boarded the ferry for return journey (Used: 3/20, Remaining: 17)

- TRUCK_23 return waiting times: In queue: 0.0 sec, In waiting area: 13.0 sec, Total: 13.0 sec

TRUCK_26 (3 quota) boarded the ferry for return journey (Used: 6/20, Remaining: 14)

- TRUCK_26 return waiting times: In queue: 0.0 sec, In waiting area: 13.0 sec, Total: 13.0 sec

MINIBUS_18 (2 quota) boarded the ferry for return journey (Used: 8/20, Remaining: 12)

- MINIBUS_18 return waiting times: In queue: 0.0 sec, In waiting area: 11.0 sec, Total: 11.0 sec

CAR_10 (1 quota) boarded the ferry for return journey (Used: 9/20, Remaining: 11)

- CAR_10 return waiting times: In queue: 0.0 sec, In waiting area: 9.0 sec, Total: 9.0 sec

CAR_5 (1 quota) boarded the ferry for return journey (Used: 10/20, Remaining: 10)

- CAR_5 return waiting times: In queue: 0.0 sec, In waiting area: 7.0 sec, Total: 7.0 sec

CAR_11 (1 quota) boarded the ferry for return journey (Used: 11/20, Remaining: 9)

- CAR_11 return waiting times: In queue: 0.0 sec, In waiting area: 6.0 sec, Total: 6.0 sec

TRUCK_28 (3 quota) boarded the ferry for return journey (Used: 14/20, Remaining: 6)

- TRUCK_28 return waiting times: In queue: 1.0 sec, In waiting area: 5.0 sec, Total: 6.0 sec

Both sides empty, ferry departing with partial load: 14/20 quotas

Ferry departing from Side_A to Side_B (Trip #10)

After spending 30 seconds at Side_A, CAR_8 is now joining the return queue

CAR_8 (1 quota) is being processed at Side_A_Booth_2

CAR_8 (1 quota) completed toll processing at Side_A_Booth_1

CAR_8 (1 quota) entered the waiting area at Side_A

Ferry docked at Side_B

Trip #10 completed: Side_A -> Side_B

Unloading 7 vehicles at Side_B

- TRUCK_23 completed round trip: Outbound: 37.0 sec, Return: 18.0 sec, Total: 74.0 sec
- TRUCK_26 completed round trip: Outbound: 37.0 sec, Return: 18.0 sec, Total: 74.0 sec
- MINIBUS_18 completed round trip: Outbound: 37.0 sec, Return: 16.0 sec, Total: 74.0 sec
- CAR_10 completed round trip: Outbound: 37.0 sec, Return: 14.0 sec, Total: 74.0 sec
- CAR_5 completed round trip: Outbound: 37.0 sec, Return: 12.0 sec, Total: 74.0 sec
- CAR_11 completed round trip: Outbound: 37.0 sec, Return: 11.0 sec, Total: 74.0 sec
- TRUCK_28 completed round trip: Outbound: 37.0 sec, Return: 11.0 sec, Total: 74.0 sec

Ferry has been completely unloaded

No vehicles at Side_B, but 1 vehicles waiting at Side_A. Ferry departing empty.

Ferry departing from Side_B to Side_A (Trip #11)

Ferry docked at Side_A

Trip #11 completed: Side_B -> Side_A

CAR_8 (1 quota) boarded the ferry for return journey (Used: 1/20, Remaining: 19)

- CAR_8 return waiting times: In queue: 0.0 sec, In waiting area: 12.0 sec, Total: 12.0 sec

Final trip: Ferry has all remaining 1 vehicles - ready to depart

Ferry departing from Side_A to Side_B (Trip #12)

Ferry docked at Side_B

Trip #12 completed: Side_A -> Side_B

Unloading 1 vehicles at Side_B

- CAR_8 completed round trip: Outbound: 37.0 sec, Return: 16.0 sec, Total: 87.0 sec

Ferry has been completely unloaded

Ferry remains docked at Side_B - no vehicles to transport

All 30 vehicles have been transported!

All vehicles processed, no vehicles remaining in the system!

Stopping all threads...

===== FERRY SIMULATION REPORT =====

Total simulation time: 88.00 seconds

Number of trips completed: 12

Transported Vehicles:

Total: 30 / 30 vehicles (100.0%)

Cars: 12 / 12 vehicles

Minibuses: 10 / 10 vehicles

Trucks: 8 / 8 vehicles

Remaining Vehicles:

Total remaining vehicles: 0

Waiting at Side_A: 0 (in queue: 0, in waiting area: 0)

Waiting at Side_B: 0 (in queue: 0, in waiting area: 0)

On ferry: 0

Current ferry location: Side_B

Quota Usage:

Total quotas transported: 56 / 56 (100.0%)

Total remaining quotas: 0 / 56

===== DETAILED VEHICLE STATISTICS =====

ID	Type	Origin	Outbound(s)	Return(s)	At Dest.(s)	Trip #	Status
1	CAR	Side_B	10.0	18.0	26.0	1 → 8	Round trip
2	CAR	Side_B	20.0	11.0	30.0	3 → 9	Round trip

+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
3	CAR	Side_B	10.0	10.0	25.0	1 → 6	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
4	CAR	Side_B	20.0	20.0	21.0	3 → 9	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
5	CAR	Side_B	37.0	12.0	21.0	5 → 10	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
6	CAR	Side_B	20.0	14.0	11.0	3 → 7	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
7	CAR	Side_B	10.0	15.0	29.0	1 → 8	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
8	CAR	Side_B	37.0	16.0	30.0	5 → 12	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
9	CAR	Side_B	20.0	22.0	19.0	3 → 9	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
10	CAR	Side_B	37.0	14.0	19.0	5 → 10	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
11	CAR	Side_B	37.0	11.0	22.0	5 → 10	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
12	CAR	Side_B	37.0	7.0	11.0	5 → 8	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
13	MINIBUS	Side_B	10.0	18.0	17.0	1 → 6	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
14	MINIBUS	Side_B	20.0	7.0	18.0	3 → 7	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
15	MINIBUS	Side_B	10.0	16.0	19.0	1 → 6	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
16	MINIBUS	Side_B	20.0	15.0	10.0	3 → 7	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
17	MINIBUS	Side_B	10.0	16.0	28.0	1 → 8	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
18	MINIBUS	Side_B	37.0	16.0	17.0	5 → 10	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
19	MINIBUS	Side_B	20.0	8.0	17.0	3 → 7	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
20	MINIBUS	Side_B	10.0	12.0	23.0	1 → 6	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
21	MINIBUS	Side_B	20.0	14.0	27.0	3 → 9	Round trip	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
22	MINIBUS	Side_B	20.0	14.0	27.0	3 → 9	Round trip	

+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
23	TRUCK	Side_B		37.0		18.0		15.0 5 → 10 Round trip
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
24	TRUCK	Side_B		20.0		15.0		26.0 3 → 9 Round trip
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
25	TRUCK	Side_B		10.0		16.0		28.0 1 → 8 Round trip
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
26	TRUCK	Side_B		37.0		18.0		15.0 5 → 10 Round trip
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
27	TRUCK	Side_B		20.0		23.0		18.0 3 → 9 Round trip
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
28	TRUCK	Side_B		37.0		11.0		22.0 5 → 10 Round trip
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
29	TRUCK	Side_B		10.0		11.0		24.0 1 → 6 Round trip
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								
30	TRUCK	Side_B		10.0		21.0		14.0 1 → 6 Round trip
+-----+-----+-----+-----+-----+-----+-----+-----+-----+								

Average Transport Times:

- All vehicles (outbound): 21.77 seconds
- All vehicles (return): 14.63 seconds
- All vehicles (round trip): 62.07 seconds
- Cars (outbound): 24.58 seconds
- Minibuses (outbound): 17.70 seconds
- Trucks (outbound): 22.62 seconds

Vehicles per Trip: 2.50 vehicles/trip

Completed Round Trips: 30 / 30 (100.0%)

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Simulation resources cleaned up