Factual explanation:

Passenger location: 1

Passenger destination: 3

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|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path:

Loss function value: [-0.4535043]

Action path:

Statement: Given that in state 427 the agent chose NORTH in what state would it chose EAST?   
In state 327:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 3

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|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path:

Loss function value: [-0.62964249]

Action path:

Statement: Given that in state 467 the agent chose NORTH in what state would it chose EAST?   
In state 267:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 0

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|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path:

Loss function value: [-0.45583574]

Action path:

Statement: Given that in state 276 the agent chose WEST in what state would it chose SOUTH?   
In state 272 where the passanger location is now Blue:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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No counterfactual found for target NORTH

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path:

Loss function value: [-0.78708149]

Action path:

Statement: Given that in state 276 the agent chose WEST in what state would it chose EAST?   
In state 264 where the passanger location is now Green:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path:

Loss function value: [-0.76784055]

Action path:

Statement: Given that in state 186 the agent chose NORTH in what state would it chose SOUTH?   
In state 126:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path:

Loss function value: [-0.46688888]

Action path:

Statement: Given that in state 318 the agent chose SOUTH in what state would it chose NORTH?   
In state 314 where the passanger location is now Blue:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path:

Loss function value: [-0.46925927]

Action path:

Statement: Given that in state 372 the agent chose SOUTH in what state would it chose NORTH?   
In state 352:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 0

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|R: | : :G|

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| : : : : |

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path:

Loss function value: [-0.77765542]

Action path:

Statement: Given that in state 372 the agent chose SOUTH in what state would it chose EAST?   
In state 252:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path:

Loss function value: [-0.61967271]

Action path:

Statement: Given that in state 66 the agent chose EAST in what state would it chose SOUTH?   
In state 26:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

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| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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No counterfactual found for target WEST

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path:

Loss function value: [-0.99751775]

Action path:

Statement: Given that in state 388 the agent chose NORTH in what state would it chose SOUTH?   
In state 148:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path:

Loss function value: [-0.64463045]

Action path:

Statement: Given that in state 388 the agent chose NORTH in what state would it chose WEST?   
In state 348:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 3

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path:

Loss function value: [-0.6785392]

Action path:

Statement: Given that in state 119 the agent chose EAST in what state would it chose SOUTH?   
In state 111 where the passanger location is now Yellow:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 3

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|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path:

Loss function value: [-0.98689556]

Action path:

Statement: Given that in state 119 the agent chose EAST in what state would it chose NORTH?   
In state 103 where the passanger location is now Red:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path:

Loss function value: [-0.92452696]

Action path:

Statement: Given that in state 337 the agent chose NORTH in what state would it chose SOUTH?   
In state 309 where the passanger location is now Yellow:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path:

Loss function value: [-0.78786493]

Action path:

Statement: Given that in state 337 the agent chose NORTH in what state would it chose EAST?   
In state 233 where the passanger location is now Blue:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path:

Loss function value: [-0.58154643]

Action path:

Statement: Given that in state 101 the agent chose NORTH in what state would it chose SOUTH?   
In state 141:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path:

Loss function value: [-0.48876126]

Action path:

Statement: Given that in state 152 the agent chose SOUTH in what state would it chose EAST?   
In state 252:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 2

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|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path:

Loss function value: [-0.47404408]

Action path:

Statement: Given that in state 178 the agent chose WEST in what state would it chose SOUTH?   
In state 174 where the passanger location is now Blue:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 2

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|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path:

Loss function value: [-1.35739237]

Action path:

Statement: Given that in state 178 the agent chose WEST in what state would it chose NORTH?   
In state 102 where the passanger location is now Red:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 2

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|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path:

Loss function value: [-0.78900351]

Action path:

Statement: Given that in state 178 the agent chose WEST in what state would it chose EAST?   
In state 166 where the passanger location is now Green:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 0

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|R: | : :G|

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| : : : : |

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|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path:

Loss function value: [-0.49325132]

Action path:

Statement: Given that in state 308 the agent chose SOUTH in what state would it chose NORTH?   
In state 328:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

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| : : : : |

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path:

Loss function value: [-1.0905085]

Action path:

Statement: Given that in state 286 the agent chose NORTH in what state would it chose SOUTH?   
In state 126:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path:

Loss function value: [-0.73763147]

Action path:

Statement: Given that in state 397 the agent chose NORTH in what state would it chose SOUTH?   
In state 373 where the passanger location is now Blue:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path:

Loss function value: [-0.94753168]

Action path:

Statement: Given that in state 397 the agent chose NORTH in what state would it chose WEST?   
In state 349 where the passanger location is now Yellow:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

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| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path:

Loss function value: [-0.93327738]

Action path:

Statement: Given that in state 37 the agent chose SOUTH in what state would it chose WEST?   
In state 129 where the passanger location is now Yellow:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path:

Loss function value: [-0.67980113]

Action path:

Statement: Given that in state 16 the agent chose DROPOFF in what state would it chose SOUTH?   
In state 12 where the passanger location is now Blue:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path:

Loss function value: [-0.77616324]

Action path:

Statement: Given that in state 16 the agent chose DROPOFF in what state would it chose EAST?   
In state 112 where the passanger location is now Blue:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path:

Loss function value: [-1.1196711]

Action path:

Statement: Given that in state 284 the agent chose NORTH in what state would it chose SOUTH?   
In state 124:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path:

Loss function value: [-0.44369216]

Action path:

Statement: Given that in state 277 the agent chose EAST in what state would it chose SOUTH?   
In state 273 where the passanger location is now Blue:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path:

Loss function value: [-1.34953267]

Action path:

Statement: Given that in state 277 the agent chose EAST in what state would it chose NORTH?   
In state 201 where the passanger location is now Red:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path:

Loss function value: [-0.61482552]

Action path:

Statement: Given that in state 277 the agent chose EAST in what state would it chose WEST?   
In state 269 where the passanger location is now Yellow:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

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|Y| : |B: |

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Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path:

Loss function value: [-0.48357739]

Action path:

Statement: Given that in state 7 the agent chose SOUTH in what state would it chose EAST?   
In state 107:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 1

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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No counterfactual found for target NORTH

Factual explanation:

Passenger location: 2

Passenger destination: 1

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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No counterfactual found for target NORTH

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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No counterfactual found for target EAST

Factual explanation:

Passenger location: 3

Passenger destination: 1

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|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path:

Loss function value: [-0.44737448]

Action path:

Statement: Given that in state 293 the agent chose WEST in what state would it chose SOUTH?   
In state 273:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path:

Loss function value: [-0.42468263]

Action path:

Statement: Given that in state 62 the agent chose SOUTH in what state would it chose WEST?   
In state 162:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path:

Loss function value: [-0.8181314]

Action path:

Statement: Given that in state 223 the agent chose WEST in what state would it chose SOUTH?   
In state 143:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path:

Loss function value: [-0.44570661]

Action path:

Statement: Given that in state 223 the agent chose WEST in what state would it chose NORTH?   
In state 203:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path:

Loss function value: [-0.46393848]

Action path:

Statement: Given that in state 123 the agent chose WEST in what state would it chose SOUTH?   
In state 143:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path:

Loss function value: [-0.44477018]

Action path:

Statement: Given that in state 123 the agent chose WEST in what state would it chose NORTH?   
In state 103:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path:

Loss function value: [-0.44587539]

Action path:

Statement: Given that in state 44 the agent chose EAST in what state would it chose SOUTH?   
In state 24:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path:

Loss function value: [-0.6472308]

Action path:

Statement: Given that in state 327 the agent chose EAST in what state would it chose SOUTH?   
In state 127:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path:

Loss function value: [-0.44788398]

Action path:

Statement: Given that in state 327 the agent chose EAST in what state would it chose NORTH?   
In state 347:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path:

Loss function value: [-0.65517523]

Action path:

Statement: Given that in state 326 the agent chose EAST in what state would it chose SOUTH?   
In state 126:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path:

Loss function value: [-0.47390252]

Action path:

Statement: Given that in state 326 the agent chose EAST in what state would it chose NORTH?   
In state 346:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path:

Loss function value: [-0.87187319]

Action path:

Statement: Given that in state 369 the agent chose NORTH in what state would it chose SOUTH?   
In state 309:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path:

Loss function value: [-0.76083251]

Action path:

Statement: Given that in state 98 the agent chose WEST in what state would it chose SOUTH?   
In state 74 where the passanger location is now Blue:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path:

Loss function value: [-0.74122831]

Action path:

Statement: Given that in state 398 the agent chose NORTH in what state would it chose SOUTH?   
In state 374 where the passanger location is now Blue:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path:

Loss function value: [-1.08930554]

Action path:

Statement: Given that in state 398 the agent chose NORTH in what state would it chose WEST?   
In state 342 where the passanger location is now Red:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path:

Loss function value: [-0.88771819]

Action path:

Statement: Given that in state 357 the agent chose NORTH in what state would it chose SOUTH?   
In state 153 where the passanger location is now Blue:

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|R: | : :G|

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| : : : : |

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path:

Loss function value: [-0.61868197]

Action path:

Statement: Given that in state 357 the agent chose NORTH in what state would it chose WEST?   
In state 349 where the passanger location is now Yellow:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path:

Loss function value: [-0.91431188]

Action path:

Statement: Given that in state 267 the agent chose EAST in what state would it chose SOUTH?   
In state 127:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path:

Loss function value: [-1.08918534]

Action path:

Statement: Given that in state 499 the agent chose WEST in what state would it chose NORTH?   
In state 371 where the passanger location is now Yellow:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path:

Loss function value: [-0.7113069]

Action path:

Statement: Given that in state 316 the agent chose NORTH in what state would it chose SOUTH?   
In state 308 where the passanger location is now Yellow:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path:

Loss function value: [-0.43613274]

Action path:

Statement: Given that in state 374 the agent chose SOUTH in what state would it chose NORTH?   
In state 354:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

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| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path:

Loss function value: [-0.7428041]

Action path:

Statement: Given that in state 374 the agent chose SOUTH in what state would it chose EAST?   
In state 254:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path:

Loss function value: [-1.26933732]

Action path:

Statement: Given that in state 299 the agent chose SOUTH in what state would it chose NORTH?   
In state 203 where the passanger location is now Red:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path:

Loss function value: [-0.85291183]

Action path:

Statement: Given that in state 299 the agent chose SOUTH in what state would it chose WEST?   
In state 271 where the passanger location is now Yellow:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path:

Loss function value: [-0.62637684]

Action path:

Statement: Given that in state 67 the agent chose EAST in what state would it chose SOUTH?   
In state 27:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path:

Loss function value: [-0.61649362]

Action path:

Statement: Given that in state 271 the agent chose WEST in what state would it chose SOUTH?   
In state 71:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path:

Loss function value: [-0.92177646]

Action path:

Statement: Given that in state 363 the agent chose NORTH in what state would it chose SOUTH?   
In state 143:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

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| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path:

Loss function value: [-0.99173016]

Action path:

Statement: Given that in state 381 the agent chose WEST in what state would it chose SOUTH?   
In state 141:

+---------+

|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path:

Loss function value: [-0.47874502]

Action path:

Statement: Given that in state 381 the agent chose WEST in what state would it chose NORTH?   
In state 361:

+---------+

|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path:

Loss function value: [-0.74057341]

Action path:

Statement: Given that in state 396 the agent chose WEST in what state would it chose SOUTH?   
In state 372 where the passanger location is now Blue:

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|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path:

Loss function value: [-0.85051846]

Action path:

Statement: Given that in state 396 the agent chose WEST in what state would it chose NORTH?   
In state 352 where the passanger location is now Blue:

+---------+

|R: | : :G|

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| : : : : |

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path:

Loss function value: [-0.47621138]

Action path:

Statement: Given that in state 241 the agent chose WEST in what state would it chose SOUTH?   
In state 141:

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|R: | : :G|

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path:

Loss function value: [-0.60414233]

Action path:

Statement: Given that in state 241 the agent chose WEST in what state would it chose NORTH?   
In state 201:

+---------+

|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path:

Loss function value: [-1.02292743]

Action path:

Statement: Given that in state 117 the agent chose SOUTH in what state would it chose NORTH?   
In state 101 where the passanger location is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path:

Loss function value: [-0.80138892]

Action path:

Statement: Given that in state 117 the agent chose SOUTH in what state would it chose EAST?   
In state 213 where the passanger location is now Blue:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path:

Loss function value: [-0.76282763]

Action path:

Statement: Given that in state 97 the agent chose DROPOFF in what state would it chose SOUTH?   
In state 73 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path:

Loss function value: [-0.90588321]

Action path:

Statement: Given that in state 97 the agent chose DROPOFF in what state would it chose WEST?   
In state 69 where the passanger location is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path:

Loss function value: [-0.7929667]

Action path:

Statement: Given that in state 409 the agent chose PICKUP in what state would it chose NORTH?   
In state 329:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path:

Loss function value: [-1.01737408]

Action path:

Statement: Given that in state 383 the agent chose NORTH in what state would it chose SOUTH?   
In state 143:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path:

Loss function value: [-0.61634343]

Action path:

Statement: Given that in state 383 the agent chose NORTH in what state would it chose WEST?   
In state 343:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path:

Loss function value: [-0.47440781]

Action path:

Statement: Given that in state 231 the agent chose WEST in what state would it chose SOUTH?   
In state 211:

+---------+

|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path:

Loss function value: [-0.79029003]

Action path:

Statement: Given that in state 221 the agent chose WEST in what state would it chose SOUTH?   
In state 141:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

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|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path:

Loss function value: [-0.4443333]

Action path:

Statement: Given that in state 221 the agent chose WEST in what state would it chose NORTH?   
In state 201:

+---------+

|R: | : :G|

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|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path:

Loss function value: [-0.65238642]

Action path:

Statement: Given that in state 341 the agent chose NORTH in what state would it chose SOUTH?   
In state 141:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path:

Loss function value: [-0.44437026]

Action path:

Statement: Given that in state 341 the agent chose NORTH in what state would it chose WEST?   
In state 241:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

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|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path:

Loss function value: [-0.58791335]

Action path:

Statement: Given that in state 6 the agent chose SOUTH in what state would it chose EAST?   
In state 206:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path:

Loss function value: [-0.79161317]

Action path:

Statement: Given that in state 173 the agent chose SOUTH in what state would it chose EAST?   
In state 253:

+---------+

|R: | : :G|

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|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path:

Loss function value: [-0.43821572]

Action path:

Statement: Given that in state 392 the agent chose WEST in what state would it chose SOUTH?   
In state 372:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path:

Loss function value: [-0.60533347]

Action path:

Statement: Given that in state 392 the agent chose WEST in what state would it chose NORTH?   
In state 352:

+---------+

|R: | : :G|

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|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path:

Loss function value: [-0.61768244]

Action path:

Statement: Given that in state 53 the agent chose SOUTH in what state would it chose EAST?   
In state 253:

+---------+

|R: | : :G|

| : | : : |

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|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path:

Loss function value: [-0.51369525]

Action path:

Statement: Given that in state 254 the agent chose EAST in what state would it chose SOUTH?   
In state 154:

+---------+

|R: | : :G|

| : | : : |

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|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path:

Loss function value: [-1.23253544]

Action path:

Statement: Given that in state 279 the agent chose SOUTH in what state would it chose NORTH?   
In state 203 where the passanger location is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path:

Loss function value: [-0.69368745]

Action path:

Statement: Given that in state 279 the agent chose SOUTH in what state would it chose EAST?   
In state 267 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path:

Loss function value: [-0.58505699]

Action path:

Statement: Given that in state 279 the agent chose SOUTH in what state would it chose WEST?   
In state 271 where the passanger location is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path:

Loss function value: [-0.78522164]

Action path:

Statement: Given that in state 204 the agent chose EAST in what state would it chose SOUTH?   
In state 124:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path:

Loss function value: [-0.90627808]

Action path:

Statement: Given that in state 202 the agent chose NORTH in what state would it chose SOUTH?   
In state 142:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path:

Loss function value: [-0.8064187]

Action path:

Statement: Given that in state 222 the agent chose WEST in what state would it chose SOUTH?   
In state 142:

+---------+

|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path:

Loss function value: [-0.44004451]

Action path:

Statement: Given that in state 222 the agent chose WEST in what state would it chose NORTH?   
In state 202:

+---------+

|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path:

Loss function value: [-0.48520823]

Action path:

Statement: Given that in state 114 the agent chose EAST in what state would it chose SOUTH?   
In state 14:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path:

Loss function value: [-0.72045165]

Action path:

Statement: Given that in state 474 the agent chose PICKUP in what state would it chose NORTH?   
In state 354:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path:

Loss function value: [-0.81828249]

Action path:

Statement: Given that in state 474 the agent chose PICKUP in what state would it chose EAST?   
In state 254:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path:

Loss function value: [-0.67734765]

Action path:

Statement: Given that in state 352 the agent chose NORTH in what state would it chose SOUTH?   
In state 152:

+---------+

|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path:

Loss function value: [-0.6991648]

Action path:

Statement: Given that in state 217 the agent chose EAST in what state would it chose SOUTH?   
In state 209 where the passanger location is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path:

Loss function value: [-0.99944877]

Action path:

Statement: Given that in state 217 the agent chose EAST in what state would it chose NORTH?   
In state 201 where the passanger location is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path:

Loss function value: [-0.50315273]

Action path:

Statement: Given that in state 113 the agent chose SOUTH in what state would it chose EAST?   
In state 213:

+---------+

|R: | : :G|

| : | : : |

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path:

Loss function value: [-0.88311642]

Action path:

Statement: Given that in state 282 the agent chose WEST in what state would it chose SOUTH?   
In state 62:

+---------+

|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path:

Loss function value: [-0.95008152]

Action path:

Statement: Given that in state 282 the agent chose WEST in what state would it chose NORTH?   
In state 202:

+---------+

|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path:

Loss function value: [-0.65584088]

Action path:

Statement: Given that in state 216 the agent chose NORTH in what state would it chose SOUTH?   
In state 208 where the passanger location is now Yellow:

+---------+

|R: | : :G|

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|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path:

Loss function value: [-0.47070356]

Action path:

Statement: Given that in state 216 the agent chose NORTH in what state would it chose EAST?   
In state 212 where the passanger location is now Blue:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path:

Loss function value: [-0.89127458]

Action path:

Statement: Given that in state 477 the agent chose EAST in what state would it chose NORTH?   
In state 369 where the passanger location is now Yellow:

+---------+

|R: | : :G|

| : | : : |

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path:

Loss function value: [-0.47815988]

Action path:

Statement: Given that in state 311 the agent chose SOUTH in what state would it chose NORTH?   
In state 331:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path:

Loss function value: [-0.47088113]

Action path:

Statement: Given that in state 122 the agent chose WEST in what state would it chose SOUTH?   
In state 142:

+---------+

|R: | : :G|

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|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path:

Loss function value: [-0.44979791]

Action path:

Statement: Given that in state 122 the agent chose WEST in what state would it chose NORTH?   
In state 102:

+---------+

|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path:

Loss function value: [-0.60023387]

Action path:

Statement: Given that in state 142 the agent chose SOUTH in what state would it chose NORTH?   
In state 102:

+---------+

|R: | : :G|

| : | : : |

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path:

Loss function value: [-0.84086486]

Action path:

Statement: Given that in state 269 the agent chose WEST in what state would it chose SOUTH?   
In state 149:

+---------+

|R: | : :G|

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|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path:

Loss function value: [-0.49617549]

Action path:

Statement: Given that in state 138 the agent chose WEST in what state would it chose SOUTH?   
In state 134 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path:

Loss function value: [-1.2985012]

Action path:

Statement: Given that in state 138 the agent chose WEST in what state would it chose NORTH?   
In state 102 where the passanger location is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path:

Loss function value: [-0.85950458]

Action path:

Statement: Given that in state 291 the agent chose WEST in what state would it chose SOUTH?   
In state 71:

+---------+

|R: | : :G|

| : | : : |

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path:

Loss function value: [-1.08380574]

Action path:

Statement: Given that in state 498 the agent chose WEST in what state would it chose NORTH?   
In state 354 where the passanger location is now Blue:

+---------+

|R: | : :G|

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|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path:

Loss function value: [-1.07239589]

Action path:

Statement: Given that in state 478 the agent chose NORTH in what state would it chose EAST?   
In state 266 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

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|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path:

Loss function value: [-0.7400617]

Action path:

Statement: Given that in state 86 the agent chose PICKUP in what state would it chose SOUTH?   
In state 26:

+---------+

|R: | : :G|

| : | : : |

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path:

Loss function value: [-0.97074677]

Action path:

Statement: Given that in state 199 the agent chose WEST in what state would it chose SOUTH?   
In state 151 where the passanger location is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path:

Loss function value: [-1.31856279]

Action path:

Statement: Given that in state 199 the agent chose WEST in what state would it chose NORTH?   
In state 103 where the passanger location is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path:

Loss function value: [-0.77491568]

Action path:

Statement: Given that in state 424 the agent chose EAST in what state would it chose NORTH?   
In state 344:

+---------+

|R: | : :G|

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path:

Loss function value: [-1.11128388]

Action path:

Statement: Given that in state 458 the agent chose NORTH in what state would it chose WEST?   
In state 342 where the passanger location is now Red:

+---------+

|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 3

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path:

Loss function value: [-0.86030289]

Action path:

Statement: Given that in state 459 the agent chose NORTH in what state would it chose WEST?   
In state 351 where the passanger location is now Yellow:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path:

Loss function value: [-0.64747617]

Action path:

Statement: Given that in state 191 the agent chose WEST in what state would it chose SOUTH?   
In state 151:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path:

Loss function value: [-0.47837369]

Action path:

Statement: Given that in state 441 the agent chose WEST in what state would it chose NORTH?   
In state 341:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target EAST

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path:

Loss function value: [-0.50592698]

Action path:

Statement: Given that in state 206 the agent chose EAST in what state would it chose SOUTH?   
In state 106:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path:

Loss function value: [-0.82125118]

Action path:

Statement: Given that in state 481 the agent chose NORTH in what state would it chose WEST?   
In state 261:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path:

Loss function value: [-0.96572126]

Action path:

Statement: Given that in state 266 the agent chose EAST in what state would it chose SOUTH?   
In state 126:

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|R: | : :G|

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|Y| : |B: |

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Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target NORTH

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

No counterfactual found for target WEST

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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No counterfactual found for target WEST

CF Accuracy: 0.6871508379888268in mode ACTION