Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 427, 427

Loss function value: 0.0

Action path:

Statement: Given that in state 427 the agent chose NORTH in what state would it chose EAST?   
In state 426 where the destination is now Yellow:

+---------+

|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: 0

State Path: 467, 467, 367

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 467 the agent chose NORTH in what state would it chose EAST?   
In state 364 where the destination 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: 0

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 276, 276

Loss function value: 0.0

Action path:

Statement: Given that in state 276 the agent chose WEST in what state would it chose SOUTH?   
In state 279 where the destination 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: 4

Passenger destination: 1

State Path: 276, 276, 296

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 276 the agent chose WEST in what state would it chose NORTH?   
In state 297 where the destination is now Green:

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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: 4

Passenger destination: 1

State Path: 276, 276

Loss function value: 0.0

Action path:

Statement: Given that in state 276 the agent chose WEST in what state would it chose EAST?   
In state 277 where the destination 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: 3

Passenger destination: 2

State Path: 186, 186

Loss function value: 0.0

Action path:

Statement: Given that in state 186 the agent chose NORTH in what state would it chose SOUTH?   
In state 194 where the passanger location is now Blue:

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|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 186, 186

Loss function value: 0.0

Action path:

Statement: Given that in state 186 the agent chose NORTH in what state would it chose WEST?   
In state 182 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

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 318, 318

Loss function value: 0.0

Action path:

Statement: Given that in state 318 the agent chose SOUTH in what state would it chose NORTH?   
In state 319 where the destination is now Blue:

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|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 372, 372

Loss function value: 0.0

Action path:

Statement: Given that in state 372 the agent chose SOUTH in what state would it chose NORTH?   
In state 368 where the passanger location is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 372, 372

Loss function value: 0.0

Action path:

Statement: Given that in state 372 the agent chose SOUTH in what state would it chose EAST?   
In state 364 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: 3

Passenger destination: 2

State Path: 66, 66

Loss function value: 0.0

Action path:

Statement: Given that in state 66 the agent chose EAST in what state would it chose SOUTH?   
In state 74 where the passanger location is now Blue:

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

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| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 66, 66, 166

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 66 the agent chose EAST in what state would it chose WEST?   
In state 162 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: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 388, 388, 288

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 388 the agent chose NORTH in what state would it chose SOUTH?   
In state 292 where the passanger location is now Blue:

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 388, 388

Loss function value: 0.0

Action path:

Statement: Given that in state 388 the agent chose NORTH in what state would it chose WEST?   
In state 392 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 194, 194

Loss function value: 0.0

Action path:

Statement: Given that in state 194 the agent chose SOUTH in what state would it chose NORTH?   
In state 186 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 194, 194

Loss function value: 0.0

Action path:

Statement: Given that in state 194 the agent chose SOUTH in what state would it chose WEST?   
In state 182 where the passanger location is now Red:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

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| : : : : |

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|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 119, 119

Loss function value: 0.0

Action path:

Statement: Given that in state 119 the agent chose EAST in what state would it chose SOUTH?   
In state 118 where the destination is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 119, 119

Loss function value: 0.0

Action path:

Statement: Given that in state 119 the agent chose EAST in what state would it chose NORTH?   
In state 116 where the destination 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: 4

Passenger destination: 1

State Path: 337, 337, 237, 137

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 337 the agent chose NORTH in what state would it chose SOUTH?   
In state 137:

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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: 4

Passenger destination: 3

State Path: 337, 337, 437

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 337 the agent chose NORTH in what state would it chose EAST?   
In state 439 where the destination is now Blue:

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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: 3

Passenger destination: 1

State Path: 101, 101

Loss function value: 0.0

Action path:

Statement: Given that in state 101 the agent chose NORTH in what state would it chose SOUTH?   
In state 113 where the passanger location is now Blue:

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|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 101, 101, 201

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 101 the agent chose NORTH in what state would it chose EAST?   
In state 213 where the passanger location is now Blue:

+---------+

|R: | : :G|

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 152, 152, 172, 192

Loss function value: 0.9

Action path: EAST, EAST

Statement: Given that in state 152 the agent chose SOUTH in what state would it chose NORTH?   
In state 184 where the passanger location is now Green:

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|R: | : :G|

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 152, 152

Loss function value: 0.0

Action path:

Statement: Given that in state 152 the agent chose SOUTH in what state would it chose EAST?   
In state 144 where the passanger location is now Green:

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|R: | : :G|

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|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 178, 178

Loss function value: 0.0

Action path:

Statement: Given that in state 178 the agent chose WEST in what state would it chose SOUTH?   
In state 179 where the destination is now Blue:

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|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 178, 178, 198

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 178 the agent chose WEST in what state would it chose NORTH?   
In state 197 where the destination is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 178, 178

Loss function value: 0.0

Action path:

Statement: Given that in state 178 the agent chose WEST in what state would it chose EAST?   
In state 177 where the destination is now Green:

+---------+

|R: | : :G|

| : | : : |

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 308, 308

Loss function value: 0.0

Action path:

Statement: Given that in state 308 the agent chose SOUTH in what state would it chose NORTH?   
In state 312 where the passanger location is now Blue:

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|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 286, 286, 186

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 286 the agent chose NORTH in what state would it chose SOUTH?   
In state 194 where the passanger location is now Blue:

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|R: | : :G|

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 286, 286

Loss function value: 0.0

Action path:

Statement: Given that in state 286 the agent chose NORTH in what state would it chose WEST?   
In state 294 where the passanger location is now Blue:

+---------+

|R: | : :G|

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 397, 397

Loss function value: 0.0

Action path:

Statement: Given that in state 397 the agent chose NORTH in what state would it chose SOUTH?   
In state 399 where the destination is now Blue:

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|R: | : :G|

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 397, 397

Loss function value: 0.0

Action path:

Statement: Given that in state 397 the agent chose NORTH in what state would it chose WEST?   
In state 396 where the destination is now Red:

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|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 37, 37

Loss function value: 0.0

Action path:

Statement: Given that in state 37 the agent chose SOUTH in what state would it chose WEST?   
In state 38 where the destination is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 16, 16

Loss function value: 0.0

Action path:

Statement: Given that in state 16 the agent chose DROPOFF in what state would it chose SOUTH?   
In state 18 where the destination is now Yellow:

+---------+

|R: | : :G|

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 16, 16

Loss function value: 0.0

Action path:

Statement: Given that in state 16 the agent chose DROPOFF in what state would it chose EAST?   
In state 19 where the destination is now Blue:

+---------+

|R: | : :G|

| : | : : |

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 284, 284

Loss function value: 0.0

Action path:

Statement: Given that in state 284 the agent chose NORTH in what state would it chose SOUTH?   
In state 292 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

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| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 284, 284

Loss function value: 0.0

Action path:

Statement: Given that in state 284 the agent chose NORTH in what state would it chose WEST?   
In state 288 where the passanger location is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 48, 48

Loss function value: 0.0

Action path:

Statement: Given that in state 48 the agent chose SOUTH in what state would it chose EAST?   
In state 52 where the passanger location is now Blue:

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 277, 277

Loss function value: 0.0

Action path:

Statement: Given that in state 277 the agent chose EAST in what state would it chose SOUTH?   
In state 279 where the destination is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 277, 277, 377

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 277 the agent chose EAST in what state would it chose NORTH?   
In state 378 where the destination is now Yellow:

+---------+

|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: 4

Passenger destination: 2

State Path: 277, 277

Loss function value: 0.0

Action path:

Statement: Given that in state 277 the agent chose EAST in what state would it chose WEST?   
In state 278 where the destination is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|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: 0

State Path: 7, 7

Loss function value: 0.0

Action path:

Statement: Given that in state 7 the agent chose SOUTH in what state would it chose EAST?   
In state 4 where the destination is now Red:

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

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Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 149, 149, 249, 349

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 149 the agent chose SOUTH in what state would it chose NORTH?   
In state 353 where the passanger location is now Blue:

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 149, 149, 249

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 149 the agent chose SOUTH in what state would it chose EAST?   
In state 253 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 293, 293

Loss function value: 0.0

Action path:

Statement: Given that in state 293 the agent chose WEST in what state would it chose SOUTH?   
In state 292 where the destination is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 293, 293, 393, 493

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 293 the agent chose WEST in what state would it chose NORTH?   
In state 481 where the passanger location is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 62, 62

Loss function value: 0.0

Action path:

Statement: Given that in state 62 the agent chose SOUTH in what state would it chose EAST?   
In state 66 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 62, 62

Loss function value: 0.0

Action path:

Statement: Given that in state 62 the agent chose SOUTH in what state would it chose WEST?   
In state 63 where the destination is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 223, 223, 123

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 223 the agent chose WEST in what state would it chose SOUTH?   
In state 127 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 223, 223, 323

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 223 the agent chose WEST in what state would it chose NORTH?   
In state 323:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 223, 223

Loss function value: 0.0

Action path:

Statement: Given that in state 223 the agent chose WEST in what state would it chose EAST?   
In state 227 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 123, 123

Loss function value: 0.0

Action path:

Statement: Given that in state 123 the agent chose WEST in what state would it chose SOUTH?   
In state 127 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 123, 123, 103

Loss function value: 0.95

Action path: WEST

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

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 44, 44

Loss function value: 0.0

Action path:

Statement: Given that in state 44 the agent chose EAST in what state would it chose SOUTH?   
In state 48 where the passanger location is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 327, 327, 227, 127

Loss function value: 0.9

Action path: NORTH, NORTH

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

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 327, 327

Loss function value: 0.0

Action path:

Statement: Given that in state 327 the agent chose EAST in what state would it chose NORTH?   
In state 331 where the passanger location is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 211, 211

Loss function value: 0.0

Action path:

Statement: Given that in state 211 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: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 211, 211

Loss function value: 0.0

Action path:

Statement: Given that in state 211 the agent chose SOUTH in what state would it chose EAST?   
In state 207 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 326, 326, 226, 126

Loss function value: 0.9

Action path: NORTH, NORTH

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

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 326, 326

Loss function value: 0.0

Action path:

Statement: Given that in state 326 the agent chose EAST in what state would it chose NORTH?   
In state 334 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 369, 369

Loss function value: 0.0

Action path:

Statement: Given that in state 369 the agent chose NORTH in what state would it chose SOUTH?   
In state 373 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 369, 369, 269, 249

Loss function value: 0.9

Action path: NORTH, WEST

Statement: Given that in state 369 the agent chose NORTH in what state would it chose EAST?   
In state 253 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 98, 98, 78

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 98 the agent chose WEST in what state would it chose SOUTH?   
In state 79 where the destination is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 398, 398

Loss function value: 0.0

Action path:

Statement: Given that in state 398 the agent chose NORTH in what state would it chose SOUTH?   
In state 399 where the destination is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 398, 398

Loss function value: 0.0

Action path:

Statement: Given that in state 398 the agent chose NORTH in what state would it chose WEST?   
In state 396 where the destination is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 357, 357, 257, 277

Loss function value: 0.9

Action path: NORTH, EAST

Statement: Given that in state 357 the agent chose NORTH in what state would it chose SOUTH?   
In state 279 where the destination is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 357, 357

Loss function value: 0.0

Action path:

Statement: Given that in state 357 the agent chose NORTH in what state would it chose WEST?   
In state 356 where the destination is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 267, 267, 167, 67

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 267 the agent chose EAST in what state would it chose SOUTH?   
In state 71 where the passanger location is now Yellow:

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 267, 267, 287

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 267 the agent chose EAST in what state would it chose NORTH?   
In state 287:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 267, 267

Loss function value: 0.0

Action path:

Statement: Given that in state 267 the agent chose EAST 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: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 499, 499

Loss function value: 0.0

Action path:

Statement: Given that in state 499 the agent chose WEST in what state would it chose NORTH?   
In state 497 where the destination is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 316, 316

Loss function value: 0.0

Action path:

Statement: Given that in state 316 the agent chose NORTH in what state would it chose SOUTH?   
In state 318 where the destination is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 374, 374

Loss function value: 0.0

Action path:

Statement: Given that in state 374 the agent chose SOUTH in what state would it chose NORTH?   
In state 366 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 374, 374, 274

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 374 the agent chose SOUTH in what state would it chose EAST?   
In state 266 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: 4

Passenger destination: 1

State Path: 299, 299

Loss function value: 0.0

Action path:

Statement: Given that in state 299 the agent chose SOUTH in what state would it chose NORTH?   
In state 297 where the destination is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 299, 299

Loss function value: 0.0

Action path:

Statement: Given that in state 299 the agent chose SOUTH in what state would it chose WEST?   
In state 298 where the destination is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 67, 67

Loss function value: 0.0

Action path:

Statement: Given that in state 67 the agent chose EAST in what state would it chose SOUTH?   
In state 71 where the passanger location is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 67, 67

Loss function value: 0.0

Action path:

Statement: Given that in state 67 the agent chose EAST in what state would it chose WEST?   
In state 63 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: 271, 271, 171, 71

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 271 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: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 271, 271, 291

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 271 the agent chose WEST in what state would it chose NORTH?   
In state 287 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 271, 271

Loss function value: 0.0

Action path:

Statement: Given that in state 271 the agent chose WEST 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: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 363, 363, 263, 283, 183

Loss function value: 0.85

Action path: NORTH, EAST, NORTH

Statement: Given that in state 363 the agent chose NORTH in what state would it chose SOUTH?   
In state 181 where the destination is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 363, 363, 263

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 363 the agent chose NORTH 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: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 381, 381

Loss function value: 0.0

Action path:

Statement: Given that in state 381 the agent chose WEST in what state would it chose SOUTH?   
In state 393 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 381, 381

Loss function value: 0.0

Action path:

Statement: Given that in state 381 the agent chose WEST in what state would it chose NORTH?   
In state 383 where the destination is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 396, 396

Loss function value: 0.0

Action path:

Statement: Given that in state 396 the agent chose WEST in what state would it chose SOUTH?   
In state 399 where the destination is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 396, 396

Loss function value: 0.0

Action path:

Statement: Given that in state 396 the agent chose WEST in what state would it chose NORTH?   
In state 398 where the destination is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 111, 111

Loss function value: 0.0

Action path:

Statement: Given that in state 111 the agent chose SOUTH 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: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 111, 111

Loss function value: 0.0

Action path:

Statement: Given that in state 111 the agent chose SOUTH in what state would it chose EAST?   
In state 107 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 241, 241, 261

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 241 the agent chose WEST in what state would it chose SOUTH?   
In state 273 where the passanger location is now Blue:

+---------+

|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: 241, 241, 341

Loss function value: 0.95

Action path: SOUTH

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

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 241, 241

Loss function value: 0.0

Action path:

Statement: Given that in state 241 the agent chose WEST in what state would it chose EAST?   
In state 253 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: 4

Passenger destination: 0

State Path: 117, 117

Loss function value: 0.0

Action path:

Statement: Given that in state 117 the agent chose SOUTH in what state would it chose NORTH?   
In state 116 where the destination is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 117, 117

Loss function value: 0.0

Action path:

Statement: Given that in state 117 the agent chose SOUTH in what state would it chose EAST?   
In state 119 where the destination is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 97, 97, 77

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 97 the agent chose DROPOFF in what state would it chose SOUTH?   
In state 79 where the destination is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 97, 97

Loss function value: 0.0

Action path:

Statement: Given that in state 97 the agent chose DROPOFF in what state would it chose WEST?   
In state 99 where the destination is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 409, 409

Loss function value: 0.0

Action path:

Statement: Given that in state 409 the agent chose PICKUP in what state would it chose NORTH?   
In state 413 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 41, 41, 141, 241

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 41 the agent chose SOUTH in what state would it chose EAST?   
In state 253 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 383, 383, 283, 183

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 383 the agent chose NORTH in what state would it chose SOUTH?   
In state 181 where the destination is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 383, 383

Loss function value: 0.0

Action path:

Statement: Given that in state 383 the agent chose NORTH in what state would it chose WEST?   
In state 382 where the destination is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 3

State Path: 447, 447, 347

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 447 the agent chose NORTH in what state would it chose WEST?   
In state 351 where the passanger location is now Yellow:

+---------+

|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: 231, 231, 211

Loss function value: 0.95

Action path: WEST

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

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 231, 231, 211

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 231 the agent chose WEST 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: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 231, 231

Loss function value: 0.0

Action path:

Statement: Given that in state 231 the agent chose WEST in what state would it chose EAST?   
In state 227 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 221, 221, 121

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 221 the agent chose WEST in what state would it chose SOUTH?   
In state 133 where the passanger location is now Blue:

+---------+

|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: 221, 221, 201

Loss function value: 0.95

Action path: WEST

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

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 221, 221

Loss function value: 0.0

Action path:

Statement: Given that in state 221 the agent chose WEST in what state would it chose EAST?   
In state 233 where the passanger location is now Blue:

+---------+

|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: 341, 341, 241, 141

Loss function value: 0.9

Action path: NORTH, NORTH

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: 3

State Path: 341, 341

Loss function value: 0.0

Action path:

Statement: Given that in state 341 the agent chose NORTH in what state would it chose WEST?   
In state 343 where the destination is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 49, 49, 149, 249

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 49 the agent chose SOUTH in what state would it chose EAST?   
In state 253 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

State Path: 6, 6

Loss function value: 0.0

Action path:

Statement: Given that in state 6 the agent chose SOUTH in what state would it chose EAST?   
In state 4 where the destination is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 173, 173, 273, 373

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 173 the agent chose SOUTH in what state would it chose NORTH?   
In state 369 where the passanger location is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 173, 173, 73, 53

Loss function value: 0.9

Action path: NORTH, WEST

Statement: Given that in state 173 the agent chose SOUTH in what state would it chose EAST?   
In state 52 where the destination is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 173, 173

Loss function value: 0.0

Action path:

Statement: Given that in state 173 the agent chose SOUTH in what state would it chose WEST?   
In state 169 where the passanger location is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 392, 392

Loss function value: 0.0

Action path:

Statement: Given that in state 392 the agent chose WEST in what state would it chose SOUTH?   
In state 394 where the destination is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 392, 392

Loss function value: 0.0

Action path:

Statement: Given that in state 392 the agent chose WEST in what state would it chose NORTH?   
In state 388 where the passanger location is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 0

State Path: 53, 53

Loss function value: 0.0

Action path:

Statement: Given that in state 53 the agent chose SOUTH in what state would it chose EAST?   
In state 52 where the destination is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 254, 254, 154

Loss function value: 0.95

Action path: NORTH

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

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 254, 254, 354

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 254 the agent chose EAST in what state would it chose NORTH?   
In state 354:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 254, 254

Loss function value: 0.0

Action path:

Statement: Given that in state 254 the agent chose EAST in what state would it chose WEST?   
In state 242 where the passanger location is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 34, 34

Loss function value: 0.0

Action path:

Statement: Given that in state 34 the agent chose SOUTH in what state would it chose WEST?   
In state 22 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: 4

Passenger destination: 1

State Path: 279, 279, 299

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 279 the agent chose SOUTH in what state would it chose NORTH?   
In state 297 where the destination is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 279, 279

Loss function value: 0.0

Action path:

Statement: Given that in state 279 the agent chose SOUTH in what state would it chose EAST?   
In state 277 where the destination is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 279, 279

Loss function value: 0.0

Action path:

Statement: Given that in state 279 the agent chose SOUTH in what state would it chose WEST?   
In state 278 where the destination is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 204, 204

Loss function value: 0.0

Action path:

Statement: Given that in state 204 the agent chose EAST in what state would it chose SOUTH?   
In state 208 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: 204, 204, 304

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 204 the agent chose EAST in what state would it chose NORTH?   
In state 304:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 202, 202, 102

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 202 the agent chose NORTH in what state would it chose SOUTH?   
In state 106 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 202, 202

Loss function value: 0.0

Action path:

Statement: Given that in state 202 the agent chose NORTH in what state would it chose EAST?   
In state 214 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 222, 222, 122

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 222 the agent chose WEST in what state would it chose SOUTH?   
In state 134 where the passanger location is now Blue:

+---------+

|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: 222, 222, 202

Loss function value: 0.95

Action path: WEST

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

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 222, 222

Loss function value: 0.0

Action path:

Statement: Given that in state 222 the agent chose WEST in what state would it chose EAST?   
In state 234 where the passanger location is now Blue:

+---------+

|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: 132, 132, 232, 332

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 132 the agent chose SOUTH in what state would it chose NORTH?   
In state 332:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 132, 132

Loss function value: 0.0

Action path:

Statement: Given that in state 132 the agent chose SOUTH in what state would it chose WEST?   
In state 128 where the passanger location is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 114, 114

Loss function value: 0.0

Action path:

Statement: Given that in state 114 the agent chose EAST in what state would it chose SOUTH?   
In state 113 where the destination is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 114, 114

Loss function value: 0.0

Action path:

Statement: Given that in state 114 the agent chose EAST 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: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 474, 474

Loss function value: 0.0

Action path:

Statement: Given that in state 474 the agent chose PICKUP in what state would it chose NORTH?   
In state 466 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 474, 474, 478

Loss function value: 0.95

Action path: PICKUP

Statement: Given that in state 474 the agent chose PICKUP in what state would it chose EAST?   
In state 477 where the passanger location is now In Taxi:

+---------+

|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: 352, 352, 252, 152

Loss function value: 0.9

Action path: NORTH, NORTH

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

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 352, 352

Loss function value: 0.0

Action path:

Statement: Given that in state 352 the agent chose NORTH in what state would it chose WEST?   
In state 348 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: 4

Passenger destination: 2

State Path: 217, 217

Loss function value: 0.0

Action path:

Statement: Given that in state 217 the agent chose EAST in what state would it chose SOUTH?   
In state 218 where the destination is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 217, 217

Loss function value: 0.0

Action path:

Statement: Given that in state 217 the agent chose EAST in what state would it chose NORTH?   
In state 216 where the destination is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 113, 113

Loss function value: 0.0

Action path:

Statement: Given that in state 113 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: 3

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 113, 113

Loss function value: 0.0

Action path:

Statement: Given that in state 113 the agent chose SOUTH in what state would it chose EAST?   
In state 114 where the destination is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 282, 282, 382

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 282 the agent chose WEST in what state would it chose SOUTH?   
In state 394 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 282, 282

Loss function value: 0.0

Action path:

Statement: Given that in state 282 the agent chose WEST in what state would it chose NORTH?   
In state 286 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 216, 216

Loss function value: 0.0

Action path:

Statement: Given that in state 216 the agent chose NORTH in what state would it chose SOUTH?   
In state 218 where the destination is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 216, 216

Loss function value: 0.0

Action path:

Statement: Given that in state 216 the agent chose NORTH in what state would it chose EAST?   
In state 219 where the destination is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 477, 477

Loss function value: 0.0

Action path:

Statement: Given that in state 477 the agent chose EAST in what state would it chose NORTH?   
In state 478 where the destination is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 311, 311

Loss function value: 0.0

Action path:

Statement: Given that in state 311 the agent chose SOUTH in what state would it chose NORTH?   
In state 307 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 122, 122

Loss function value: 0.0

Action path:

Statement: Given that in state 122 the agent chose WEST in what state would it chose SOUTH?   
In state 134 where the passanger location is now Blue:

+---------+

|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: 122, 122, 102

Loss function value: 0.95

Action path: WEST

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

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 142, 142, 162, 182

Loss function value: 0.9

Action path: EAST, EAST

Statement: Given that in state 142 the agent chose SOUTH in what state would it chose NORTH?   
In state 186 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 142, 142

Loss function value: 0.0

Action path:

Statement: Given that in state 142 the agent chose SOUTH in what state would it chose EAST?   
In state 146 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 269, 269

Loss function value: 0.0

Action path:

Statement: Given that in state 269 the agent chose WEST in what state would it chose SOUTH?   
In state 273 where the passanger location is now Blue:

+---------+

|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: 269, 269, 369

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 269 the agent chose WEST in what state would it chose NORTH?   
In state 369:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 269, 269, 249

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 269 the agent chose WEST in what state would it chose EAST?   
In state 253 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 138, 138

Loss function value: 0.0

Action path:

Statement: Given that in state 138 the agent chose WEST in what state would it chose SOUTH?   
In state 139 where the destination is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 138, 138, 118

Loss function value: 0.95

Action path: WEST

Statement: Given that in state 138 the agent chose WEST in what state would it chose NORTH?   
In state 116 where the destination 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: 0

State Path: 291, 291, 191

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 291 the agent chose WEST in what state would it chose SOUTH?   
In state 188 where the destination is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 291, 291

Loss function value: 0.0

Action path:

Statement: Given that in state 291 the agent chose WEST in what state would it chose NORTH?   
In state 287 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 498, 498

Loss function value: 0.0

Action path:

Statement: Given that in state 498 the agent chose WEST in what state would it chose NORTH?   
In state 497 where the destination is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 478, 478

Loss function value: 0.0

Action path:

Statement: Given that in state 478 the agent chose NORTH in what state would it chose EAST?   
In state 477 where the destination is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 86, 86

Loss function value: 0.0

Action path:

Statement: Given that in state 86 the agent chose PICKUP in what state would it chose SOUTH?   
In state 94 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 86, 86

Loss function value: 0.0

Action path:

Statement: Given that in state 86 the agent chose PICKUP in what state would it chose WEST?   
In state 82 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: 4

Passenger destination: 3

State Path: 199, 199, 299

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 199 the agent chose WEST in what state would it chose SOUTH?   
In state 299:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 199, 199

Loss function value: 0.0

Action path:

Statement: Given that in state 199 the agent chose WEST in what state would it chose NORTH?   
In state 197 where the destination is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 424, 424

Loss function value: 0.0

Action path:

Statement: Given that in state 424 the agent chose EAST in what state would it chose NORTH?   
In state 427 where the destination is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 458, 458, 358

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 458 the agent chose NORTH in what state would it chose WEST?   
In state 356 where the destination is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 459, 459, 359

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 459 the agent chose NORTH in what state would it chose WEST?   
In state 356 where the destination 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: 0

State Path: 191, 191

Loss function value: 0.0

Action path:

Statement: Given that in state 191 the agent chose WEST in what state would it chose SOUTH?   
In state 188 where the destination is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 3

State Path: 191, 191

Loss function value: 0.0

Action path:

Statement: Given that in state 191 the agent chose WEST in what state would it chose NORTH?   
In state 187 where the passanger location is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 441, 441

Loss function value: 0.0

Action path:

Statement: Given that in state 441 the agent chose WEST in what state would it chose NORTH?   
In state 453 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

State Path: 421, 421, 321, 221

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 421 the agent chose NORTH in what state would it chose EAST?   
In state 233 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 206, 206, 106

Loss function value: 0.95

Action path: NORTH

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

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 206, 206

Loss function value: 0.0

Action path:

Statement: Given that in state 206 the agent chose EAST in what state would it chose NORTH?   
In state 202 where the passanger location is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

State Path: 481, 481

Loss function value: 0.0

Action path:

Statement: Given that in state 481 the agent chose NORTH in what state would it chose WEST?   
In state 483 where the destination is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 2

State Path: 266, 266

Loss function value: 0.0

Action path:

Statement: Given that in state 266 the agent chose EAST in what state would it chose SOUTH?   
In state 274 where the passanger location is now Blue:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 266, 266, 366

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 266 the agent chose EAST in what state would it chose NORTH?   
In state 366:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

State Path: 266, 266

Loss function value: 0.0

Action path:

Statement: Given that in state 266 the agent chose EAST in what state would it chose WEST?   
In state 262 where the passanger location is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

CF Accuracy: 1.0in mode ACTION\_CHANGEBOTH