Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 0

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 424 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: 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:

+---------+

|R: | : :G|

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| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|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:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 276, 276, 376

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 276 the agent chose WEST in what state would it chose NORTH?   
In state 376:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|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|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 186, 186, 86, 98, 78

Loss function value: 0.85

Action path: NORTH, PICKUP, WEST

Statement: Given that in state 186 the agent chose NORTH in what state would it chose SOUTH?   
In state 79 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: 4

Passenger destination: 2

State Path: 186, 186, 86, 98

Loss function value: 0.9

Action path: NORTH, PICKUP

Statement: Given that in state 186 the agent chose NORTH in what state would it chose WEST?   
In state 98:

+---------+

|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: 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 316 where the destination is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 372, 372, 472, 476

Loss function value: 0.9

Action path: SOUTH, PICKUP

Statement: Given that in state 372 the agent chose SOUTH in what state would it chose NORTH?   
In state 476:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 372, 372, 472, 476

Loss function value: 0.9

Action path: SOUTH, PICKUP

Statement: Given that in state 372 the agent chose SOUTH 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: 4

Passenger destination: 3

State Path: 66, 66, 86, 98, 78

Loss function value: 0.85

Action path: EAST, PICKUP, WEST

Statement: Given that in state 66 the agent chose EAST in what state would it chose SOUTH?   
In state 79 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: 4

Passenger destination: 2

State Path: 66, 66, 86, 98

Loss function value: 0.9

Action path: EAST, PICKUP

Statement: Given that in state 66 the agent chose EAST in what state would it chose WEST?   
In state 98:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 388, 388, 288, 188

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 388 the agent chose NORTH in what state would it chose SOUTH?   
In state 188:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

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 389 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: 3

Passenger destination: 2

State Path: 194, 194, 174, 154, 254, 354

Loss function value: 0.8

Action path: WEST, WEST, SOUTH, SOUTH

Statement: Given that in state 194 the agent chose SOUTH 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: 3

Passenger destination: 0

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 192 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: 1

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 117 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: 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:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

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:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

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

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 337 the agent chose NORTH in what state would it chose EAST?   
In state 237:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 101, 101, 1, 17

Loss function value: 0.9

Action path: NORTH, PICKUP

Statement: Given that in state 101 the agent chose NORTH in what state would it chose SOUTH?   
In state 18 where the destination is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 101, 101, 1, 17

Loss function value: 0.9

Action path: NORTH, PICKUP

Statement: Given that in state 101 the agent chose NORTH in what state would it chose EAST?   
In state 17:

+---------+

|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: 152, 152, 252, 352

Loss function value: 0.9

Action path: SOUTH, SOUTH

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

+---------+

|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: 152, 152, 52

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 152 the agent chose SOUTH in what state would it chose EAST?   
In state 52:

+---------+

|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: 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:

+---------+

|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, 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|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 308, 308, 408, 416

Loss function value: 0.9

Action path: SOUTH, PICKUP

Statement: Given that in state 308 the agent chose SOUTH in what state would it chose NORTH?   
In state 416:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 286, 286, 186, 86, 98, 78

Loss function value: 0.8

Action path: NORTH, NORTH, PICKUP, WEST

Statement: Given that in state 286 the agent chose NORTH in what state would it chose SOUTH?   
In state 79 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: 4

Passenger destination: 2

State Path: 286, 286, 186, 86, 98

Loss function value: 0.85

Action path: NORTH, NORTH, PICKUP

Statement: Given that in state 286 the agent chose NORTH in what state would it chose WEST?   
In state 98:

+---------+

|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: 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:

+---------+

|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: 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:

+---------+

|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: 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 36 where the destination is now Red:

+---------+

|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|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 4

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

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 17 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: 0

State Path: 284, 284, 264, 244, 224, 124

Loss function value: 0.8

Action path: WEST, WEST, WEST, NORTH

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

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 284, 284, 184, 84, 96

Loss function value: 0.85

Action path: NORTH, NORTH, PICKUP

Statement: Given that in state 284 the agent chose NORTH in what state would it chose WEST?   
In state 96:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 48, 48, 148, 248, 228, 208, 308, 408, 416, 316, 216

Loss function value: 0.55

Action path: SOUTH, SOUTH, WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 48 the agent chose SOUTH in what state would it chose EAST?   
In state 217 where the destination is now Green:

+---------+

|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: 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: 1

State Path: 277, 277, 297

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 277 the agent chose EAST in what state would it chose NORTH?   
In state 297:

+---------+

|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: 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 276 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: 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|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 149, 149, 249, 229, 329

Loss function value: 0.85

Action path: SOUTH, WEST, SOUTH

Statement: Given that in state 149 the agent chose SOUTH in what state would it chose NORTH?   
In state 329:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 149, 149, 249, 229, 209, 309, 409, 417, 317, 217

Loss function value: 0.6

Action path: SOUTH, WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 149 the agent chose SOUTH in what state would it chose EAST?   
In state 217:

+---------+

|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: 3

Passenger destination: 1

State Path: 293, 293, 273, 253, 353

Loss function value: 0.85

Action path: WEST, WEST, SOUTH

Statement: Given that in state 293 the agent chose WEST in what state would it chose NORTH?   
In state 353:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 62, 62, 42, 142, 242, 222, 122, 102, 2, 18

Loss function value: 0.6

Action path: WEST, SOUTH, SOUTH, WEST, NORTH, WEST, NORTH, PICKUP

Statement: Given that in state 62 the agent chose SOUTH in what state would it chose EAST?   
In state 17 where the destination 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: 1

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 61 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: 3

State Path: 223, 223, 243, 143

Loss function value: 0.9

Action path: EAST, NORTH

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

+---------+

|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, 203

Loss function value: 0.95

Action path: WEST

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

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 223, 223, 123, 103, 3, 19

Loss function value: 0.8

Action path: NORTH, WEST, NORTH, PICKUP

Statement: Given that in state 223 the agent chose WEST in what state would it chose EAST?   
In state 19:

+---------+

|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, 223, 243, 143

Loss function value: 0.85

Action path: SOUTH, EAST, NORTH

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

+---------+

|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: 4

Passenger destination: 3

State Path: 44, 44, 64, 84, 96, 76

Loss function value: 0.8

Action path: EAST, EAST, PICKUP, WEST

Statement: Given that in state 44 the agent chose EAST in what state would it chose SOUTH?   
In state 79 where the destination is now Blue:

+---------+

|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: 1

Passenger destination: 3

State Path: 327, 327, 347

Loss function value: 0.95

Action path: EAST

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

+---------+

|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: 211, 211, 231, 331

Loss function value: 0.9

Action path: EAST, SOUTH

Statement: Given that in state 211 the agent chose SOUTH in what state would it chose NORTH?   
In state 331:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 211, 211, 311, 411, 419, 319, 219

Loss function value: 0.75

Action path: SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 211 the agent chose SOUTH in what state would it chose EAST?   
In state 219:

+---------+

|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: 1

Passenger destination: 3

State Path: 326, 326, 426

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 326 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: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 1

State Path: 369, 369, 269, 249, 149

Loss function value: 0.85

Action path: NORTH, WEST, NORTH

Statement: Given that in state 369 the agent chose NORTH in what state would it chose SOUTH?   
In state 149:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 369, 369, 269, 249, 229, 209, 309, 409, 417, 317, 217

Loss function value: 0.55

Action path: NORTH, WEST, WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 369 the agent chose NORTH in what state would it chose EAST?   
In state 217:

+---------+

|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: 0

State Path: 357, 357, 257, 157

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 357 the agent chose NORTH in what state would it chose SOUTH?   
In state 156 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: 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: 1

Passenger destination: 3

State Path: 267, 267, 247, 227, 127

Loss function value: 0.85

Action path: WEST, WEST, NORTH

Statement: Given that in state 267 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: 1

Passenger destination: 3

State Path: 267, 267, 367

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 267 the agent chose EAST in what state would it chose NORTH?   
In state 367:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 267, 267, 167, 187, 87, 99

Loss function value: 0.8

Action path: NORTH, EAST, NORTH, PICKUP

Statement: Given that in state 267 the agent chose EAST in what state would it chose WEST?   
In state 99:

+---------+

|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: 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 496 where the destination is now Red:

+---------+

|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: 4

Passenger destination: 2

State Path: 374, 374, 474, 478

Loss function value: 0.9

Action path: SOUTH, PICKUP

Statement: Given that in state 374 the agent chose SOUTH in what state would it chose NORTH?   
In state 478:

+---------+

|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: 374, 374, 274, 254

Loss function value: 0.9

Action path: NORTH, WEST

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

+---------+

|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: 0

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 296 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: 4

Passenger destination: 3

State Path: 67, 67, 87, 99, 79

Loss function value: 0.85

Action path: EAST, PICKUP, WEST

Statement: Given that in state 67 the agent chose EAST in what state would it chose SOUTH?   
In state 79:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 67, 67, 87, 99

Loss function value: 0.9

Action path: EAST, PICKUP

Statement: Given that in state 67 the agent chose EAST in what state would it chose WEST?   
In state 99:

+---------+

|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, 251, 151

Loss function value: 0.9

Action path: WEST, NORTH

Statement: Given that in state 271 the agent chose WEST in what state would it chose SOUTH?   
In state 151:

+---------+

|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, 371

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 271 the agent chose WEST in what state would it chose NORTH?   
In state 371:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 271, 271, 251, 231, 211, 311, 411, 419, 319, 219

Loss function value: 0.6

Action path: WEST, WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 271 the agent chose WEST in what state would it chose EAST?   
In state 219:

+---------+

|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, 383, 283, 183

Loss function value: 0.85

Action path: EAST, NORTH, 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: 4

Passenger destination: 3

State Path: 363, 363, 263, 243, 223, 123, 103, 3, 19

Loss function value: 0.65

Action path: NORTH, WEST, WEST, NORTH, WEST, NORTH, PICKUP

Statement: Given that in state 363 the agent chose NORTH in what state would it chose EAST?   
In state 19:

+---------+

|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: 381, 381, 281, 181

Loss function value: 0.9

Action path: NORTH, NORTH

Statement: Given that in state 381 the agent chose WEST in what state would it chose SOUTH?   
In state 181:

+---------+

|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: 1

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 397 where the destination is now Green:

+---------+

|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: 111, 111, 131, 231, 331

Loss function value: 0.85

Action path: EAST, SOUTH, SOUTH

Statement: Given that in state 111 the agent chose SOUTH in what state would it chose NORTH?   
In state 331:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 111, 111, 211, 311, 411, 419, 319, 219

Loss function value: 0.7

Action path: SOUTH, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 111 the agent chose SOUTH in what state would it chose EAST?   
In state 219:

+---------+

|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, 141

Loss function value: 0.95

Action path: NORTH

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

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 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: 4

Passenger destination: 1

State Path: 241, 241, 221, 121, 21, 1, 17

Loss function value: 0.75

Action path: WEST, NORTH, NORTH, WEST, PICKUP

Statement: Given that in state 241 the agent chose WEST in what state would it chose EAST?   
In state 17:

+---------+

|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: 0

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 96 where the destination is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 409, 409, 417

Loss function value: 0.95

Action path: PICKUP

Statement: Given that in state 409 the agent chose PICKUP in what state would it chose NORTH?   
In state 417:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 41, 41, 141, 241, 221, 121, 21, 1, 17

Loss function value: 0.65

Action path: SOUTH, SOUTH, WEST, NORTH, NORTH, WEST, PICKUP

Statement: Given that in state 41 the agent chose SOUTH in what state would it chose EAST?   
In state 17:

+---------+

|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: 1

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 381 where the destination is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 447, 447, 347, 247, 267, 167, 67, 87, 99

Loss function value: 0.65

Action path: NORTH, NORTH, EAST, NORTH, NORTH, EAST, PICKUP

Statement: Given that in state 447 the agent chose NORTH in what state would it chose WEST?   
In state 99:

+---------+

|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: 2

Passenger destination: 3

State Path: 231, 231, 331

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 231 the agent chose WEST in what state would it chose NORTH?   
In state 331:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 3

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 3

State Path: 231, 231, 211, 311, 411, 419, 319, 219

Loss function value: 0.7

Action path: WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 231 the agent chose WEST in what state would it chose EAST?   
In state 219:

+---------+

|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, 241, 141

Loss function value: 0.9

Action path: EAST, NORTH

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

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 221, 221, 321

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 221 the agent chose WEST in what state would it chose NORTH?   
In state 321:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 221, 221, 121, 21, 1, 17

Loss function value: 0.8

Action path: NORTH, NORTH, WEST, PICKUP

Statement: Given that in state 221 the agent chose WEST in what state would it chose EAST?   
In state 17:

+---------+

|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: 2

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 342 where the destination is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 49, 49, 149, 249, 229, 209, 309, 409, 417, 317, 217

Loss function value: 0.55

Action path: SOUTH, SOUTH, WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 49 the agent chose SOUTH in what state would it chose EAST?   
In state 217:

+---------+

|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: 3

Passenger destination: 1

State Path: 173, 173, 153, 253, 353

Loss function value: 0.85

Action path: WEST, SOUTH, SOUTH

Statement: Given that in state 173 the agent chose SOUTH in what state would it chose NORTH?   
In state 353:

+---------+

|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: 3

Passenger destination: 0

State Path: 173, 173, 193

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 173 the agent chose SOUTH in what state would it chose WEST?   
In state 192 where the destination is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 3

Passenger destination: 1

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 393 where the destination is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 0

State Path: 392, 392, 492, 472, 476

Loss function value: 0.85

Action path: SOUTH, WEST, PICKUP

Statement: Given that in state 392 the agent chose WEST in what state would it chose NORTH?   
In state 476:

+---------+

|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: 3

Passenger destination: 2

State Path: 254, 254, 274, 294

Loss function value: 0.9

Action path: EAST, EAST

Statement: Given that in state 254 the agent chose EAST in what state would it chose WEST?   
In state 294:

+---------+

|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: 34, 34, 134, 234, 254, 274, 294

Loss function value: 0.75

Action path: SOUTH, SOUTH, EAST, EAST, EAST

Statement: Given that in state 34 the agent chose SOUTH in what state would it chose WEST?   
In state 294:

+---------+

|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: 0

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 276 where the destination is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 0

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 1

Passenger destination: 2

State Path: 204, 204, 104

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 204 the agent chose EAST in what state would it chose SOUTH?   
In state 106 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: 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: 4

Passenger destination: 2

State Path: 202, 202, 102, 2, 18

Loss function value: 0.85

Action path: NORTH, NORTH, PICKUP

Statement: Given that in state 202 the agent chose NORTH in what state would it chose SOUTH?   
In state 18:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 202, 202, 102, 2, 18

Loss function value: 0.85

Action path: NORTH, NORTH, PICKUP

Statement: Given that in state 202 the agent chose NORTH in what state would it chose EAST?   
In state 17 where the destination 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: 2

State Path: 222, 222, 242, 142

Loss function value: 0.9

Action path: EAST, NORTH

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

+---------+

|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, 322

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 222 the agent chose WEST in what state would it chose NORTH?   
In state 322:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 222, 222, 122, 102, 2, 18

Loss function value: 0.8

Action path: NORTH, WEST, NORTH, PICKUP

Statement: Given that in state 222 the agent chose WEST in what state would it chose EAST?   
In state 17 where the destination is now Green:

+---------+

|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: 3

Passenger destination: 1

State Path: 132, 132, 232, 252, 272, 292

Loss function value: 0.8

Action path: SOUTH, EAST, EAST, EAST

Statement: Given that in state 132 the agent chose SOUTH in what state would it chose WEST?   
In state 293 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: 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: 3

Passenger destination: 2

State Path: 114, 114, 214, 314

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 114 the agent chose EAST in what state would it chose NORTH?   
In state 314:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 3

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

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 NORTH?   
In state 478:

+---------+

|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 destination is now Green:

+---------+

|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: 3

Passenger destination: 1

State Path: 352, 352, 252, 272, 292

Loss function value: 0.85

Action path: NORTH, EAST, EAST

Statement: Given that in state 352 the agent chose NORTH in what state would it chose WEST?   
In state 293 where the destination is now Green:

+---------+

|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: 3

Passenger destination: 1

State Path: 113, 113, 213, 313

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 113 the agent chose SOUTH in what state would it chose NORTH?   
In state 313:

+---------+

|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: 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 112 where the destination is now Red:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 1

State Path: 282, 282, 182

Loss function value: 0.95

Action path: NORTH

Statement: Given that in state 282 the agent chose WEST 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: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 3

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 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: 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: 1

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 217 where the destination is now Green:

+---------+

|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: 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 476 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: 4

Passenger destination: 3

State Path: 311, 311, 411, 419

Loss function value: 0.9

Action path: SOUTH, PICKUP

Statement: Given that in state 311 the agent chose SOUTH in what state would it chose NORTH?   
In state 419:

+---------+

|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, 222, 242, 142

Loss function value: 0.85

Action path: SOUTH, EAST, NORTH

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

+---------+

|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: 0

Passenger destination: 1

State Path: 142, 142, 242, 342

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 142 the agent chose SOUTH in what state would it chose NORTH?   
In state 341 where the destination is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 142, 142, 242, 222, 122, 22, 2, 18

Loss function value: 0.7

Action path: SOUTH, WEST, NORTH, NORTH, WEST, PICKUP

Statement: Given that in state 142 the agent chose SOUTH in what state would it chose EAST?   
In state 17 where the destination is now Green:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 2

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 2

Passenger destination: 0

State Path: 269, 269, 169, 189

Loss function value: 0.9

Action path: NORTH, EAST

Statement: Given that in state 269 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: 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: 4

Passenger destination: 1

State Path: 269, 269, 249, 229, 209, 309, 409, 417, 317, 217

Loss function value: 0.6

Action path: WEST, WEST, WEST, SOUTH, SOUTH, PICKUP, NORTH, NORTH

Statement: Given that in state 269 the agent chose WEST in what state would it chose EAST?   
In state 217:

+---------+

|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: 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 137 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: 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: 2

Passenger destination: 3

State Path: 291, 291, 391

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 291 the agent chose WEST in what state would it chose NORTH?   
In state 391:

+---------+

|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: 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 496 where the destination is now Red:

+---------+

|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: 4

Passenger destination: 3

State Path: 86, 86, 98, 78

Loss function value: 0.9

Action path: PICKUP, WEST

Statement: Given that in state 86 the agent chose PICKUP in what state would it chose SOUTH?   
In state 79 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: 4

Passenger destination: 2

State Path: 86, 86, 98

Loss function value: 0.95

Action path: PICKUP

Statement: Given that in state 86 the agent chose PICKUP in what state would it chose WEST?   
In state 98:

+---------+

|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: 2

Passenger destination: 3

State Path: 191, 191, 291, 391

Loss function value: 0.9

Action path: SOUTH, SOUTH

Statement: Given that in state 191 the agent chose WEST in what state would it chose NORTH?   
In state 391:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 0

Passenger destination: 2

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 442 where the destination is now Yellow:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 0

Passenger destination: 1

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 1

State Path: 421, 421, 321, 221, 121, 21, 1, 17

Loss function value: 0.7

Action path: NORTH, NORTH, NORTH, NORTH, WEST, PICKUP

Statement: Given that in state 421 the agent chose NORTH in what state would it chose EAST?   
In state 17:

+---------+

|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: 1

Passenger destination: 2

State Path: 206, 206, 306

Loss function value: 0.95

Action path: SOUTH

Statement: Given that in state 206 the agent chose EAST in what state would it chose NORTH?   
In state 306:

+---------+

|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: 1

Passenger destination: 2

State Path: 266, 266, 246, 226, 126

Loss function value: 0.85

Action path: WEST, WEST, NORTH

Statement: Given that in state 266 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: 1

Passenger destination: 2

State Path: 266, 266, 286

Loss function value: 0.95

Action path: EAST

Statement: Given that in state 266 the agent chose EAST in what state would it chose NORTH?   
In state 286:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Factual explanation:

Passenger location: 1

Passenger destination: 2

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

Counterfactual explanation:

Passenger location: 4

Passenger destination: 2

State Path: 266, 266, 166, 186, 86, 98

Loss function value: 0.8

Action path: NORTH, EAST, NORTH, PICKUP

Statement: Given that in state 266 the agent chose EAST in what state would it chose WEST?   
In state 98:

+---------+

|R: | : :G|

| : | : : |

| : : : : |

| | : | : |

|Y| : |B: |

+---------+

CF Accuracy: 1.0in mode ACTION\_CHANGEDST