

Demographics

Participant ID (assigned by researcher)

Gender

- Male
- Female
- Other

Age

Experience with logic

- Very experienced
- Some experience
- Neutral
- Not much experience
- No experience

Highest level of education completed

- High school
- Associate degree
- Bachelor's degree
- Master's degree
- Professional degree
- Doctorate degree

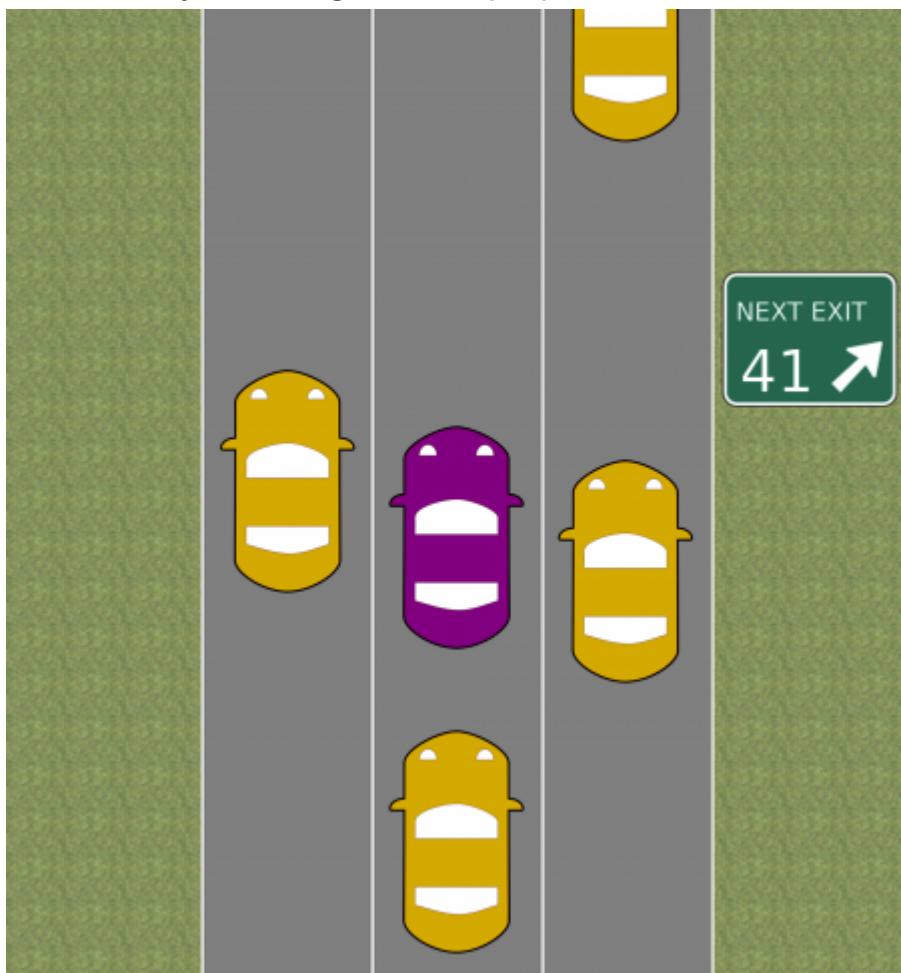
Are you a native English speaker?

- Yes
- No

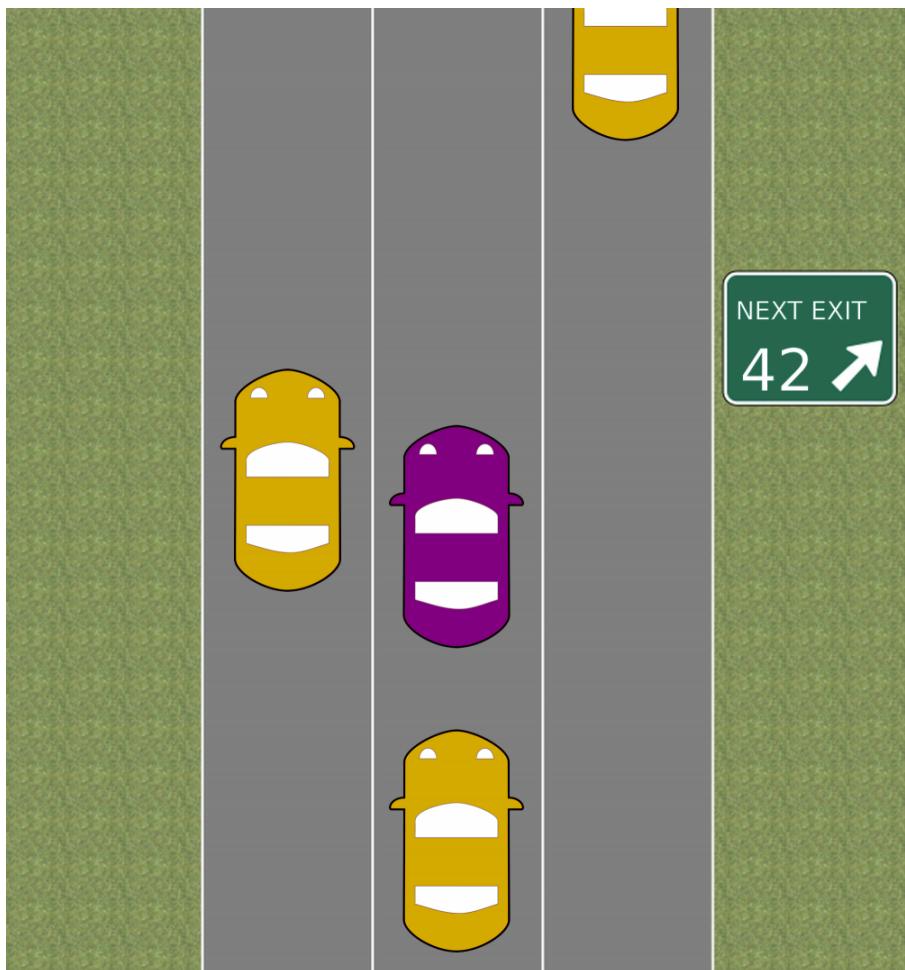
driving_instructions

In the next section, a computer will be driving a purple car. The computer will make maneuvers based on the road around it.

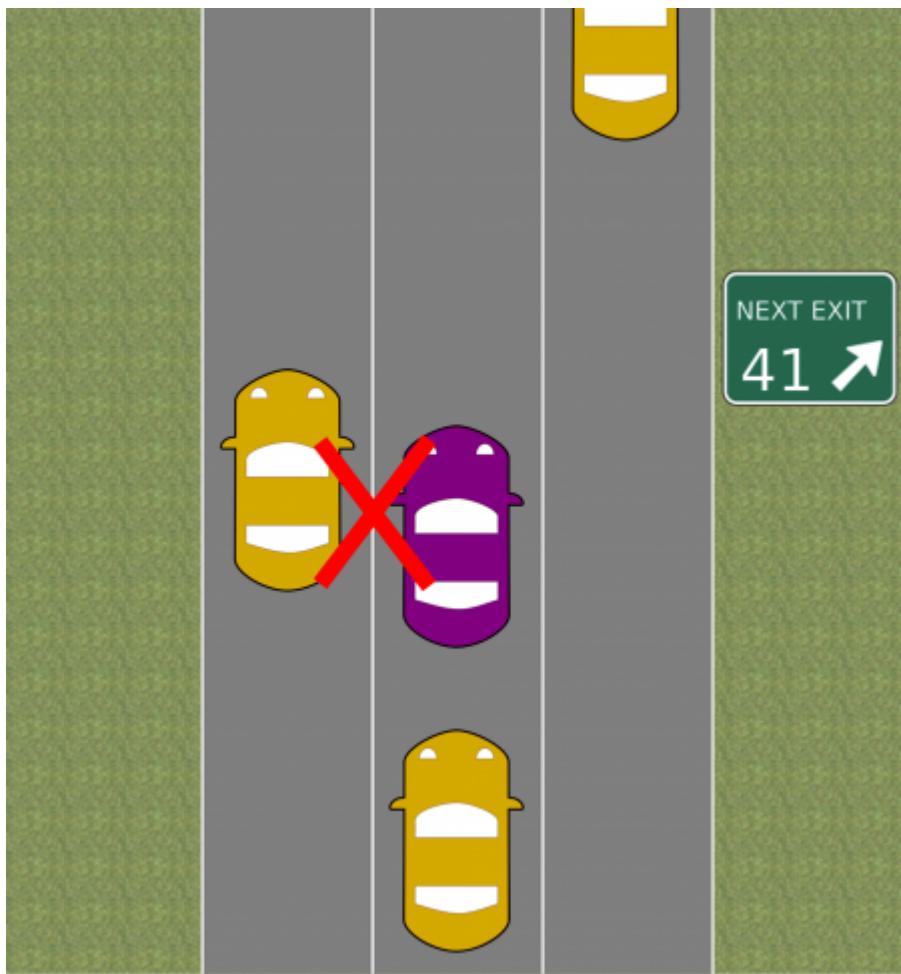
In the image below, the computer would say "a vehicle is to my right" as there is a car immediately to the right of the purple car.



However, in the next image, the computer would say "a vehicle is not to my right," as there is no car immediately to the purple car's right:



The computer might be faulty. It might tell you it will take an action which leads to an accident on the road.



driving_instructions_2

For each question, a computer will describe an action and the conditions under which it may take that action. Accompanying this description, an image will show the state of the road. Based on the image, you must determine whether the computer will take the action.

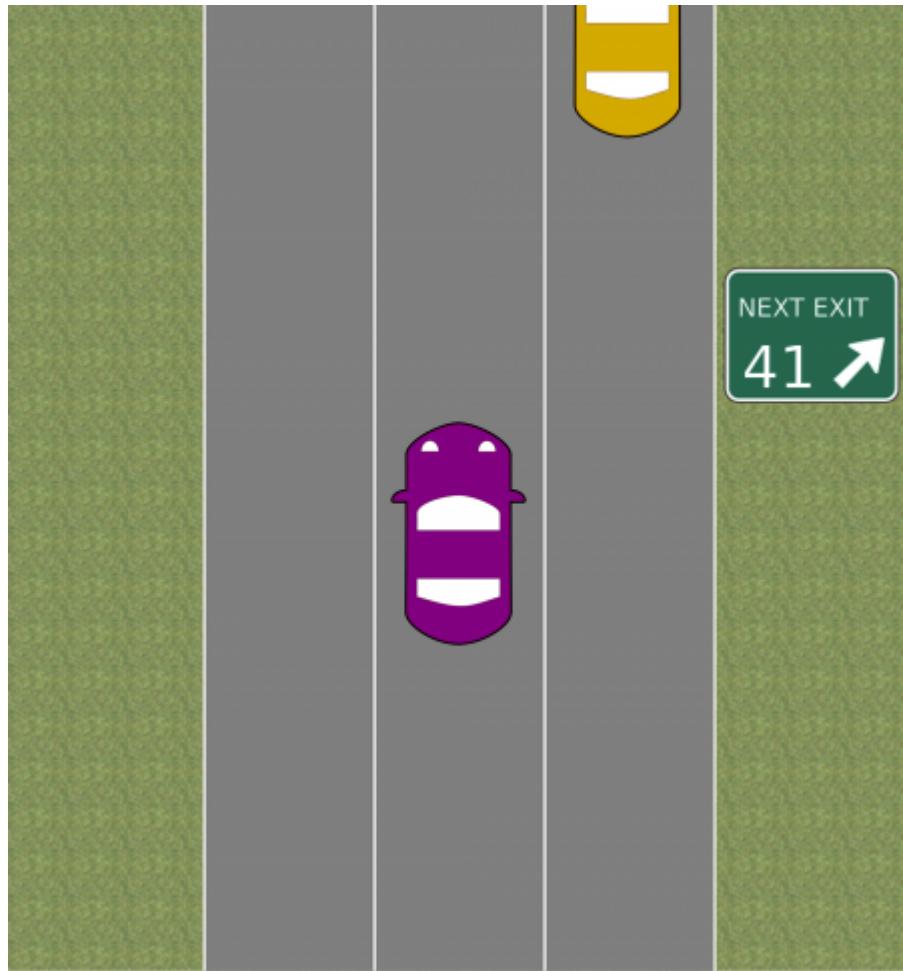
You should answer **based on what the computer tells you it would do**.

The computer might be faulty. It might tell you it will take an action which leads to an accident on the road. **You should not try to correct the computer's decisions**. For example, if the computer tells you it will merge left even though a car is immediately to its left, you should still say the computer will merge left.

The computer might say:

I merge right when

- Both of:
 - there is not a vehicle to my right
 - the next exit is 41



Does the computer merge right?

- Yes
- No

How confident are you of your answer?

- Very confident

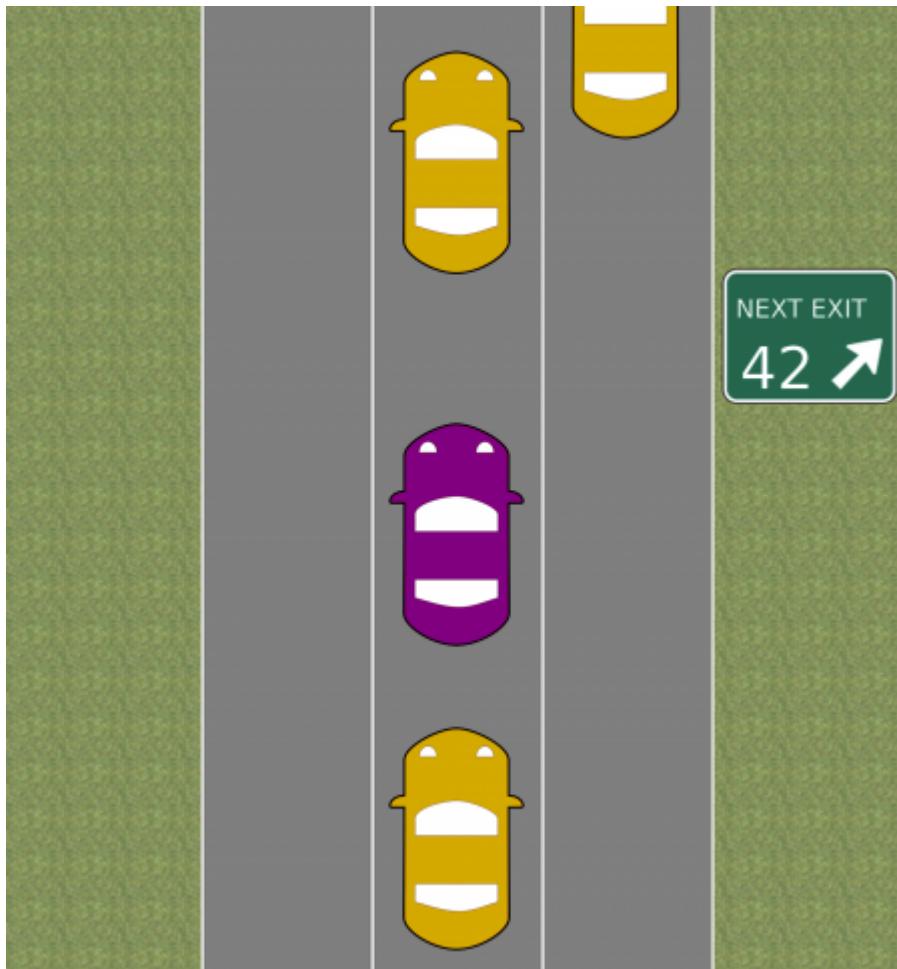
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

highway_good_agent_Languages.CNF_TruthTrue

The computer says:

I merge right when

- All of:
 - a vehicle is not to my right
 - One or both of:
 - a vehicle is to my left
 - the next exit is 42
 - One or both of:
 - a vehicle is in front of me
 - the next exit is 42



The computer merges right

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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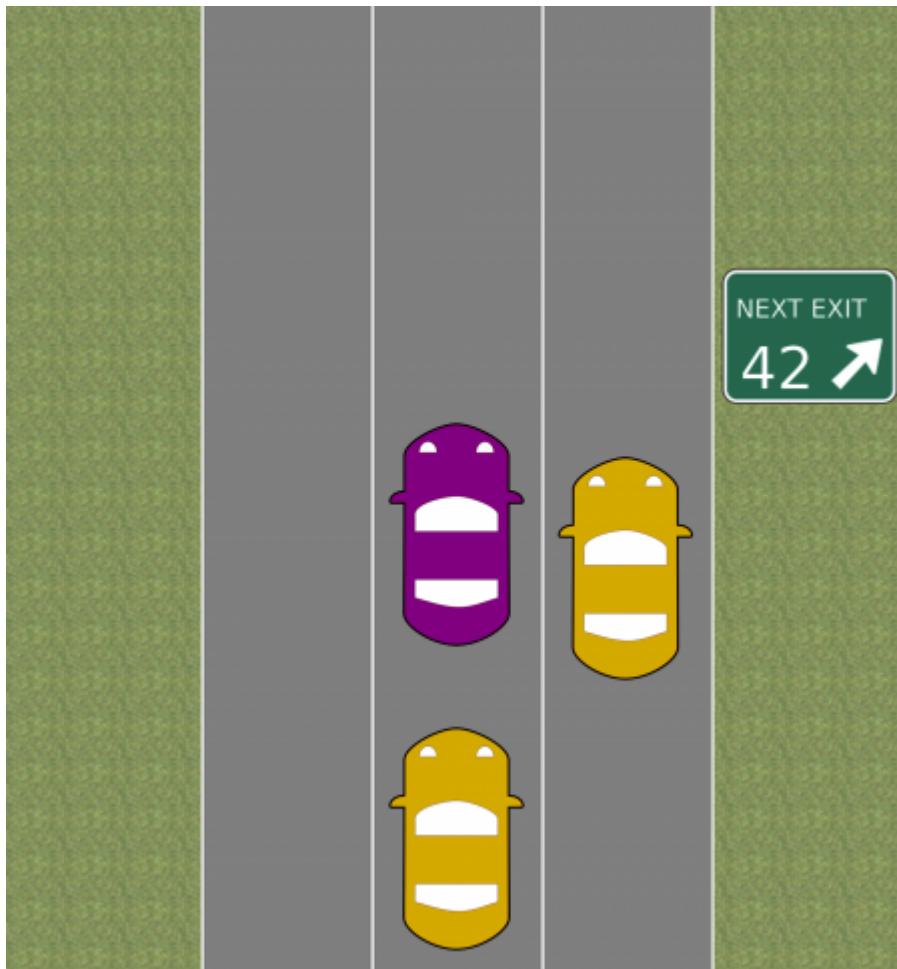
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highway_good_agent_Languages.dDNNF_True_truthTrue

The computer says:

I speed up when

- Both of:
 - a vehicle is not in front of me
 - One or both of:
 - the next exit is not 42
 - All of:
 - a vehicle is to my right
 - the next exit is 42
 - a vehicle is behind me



The computer increases its speed

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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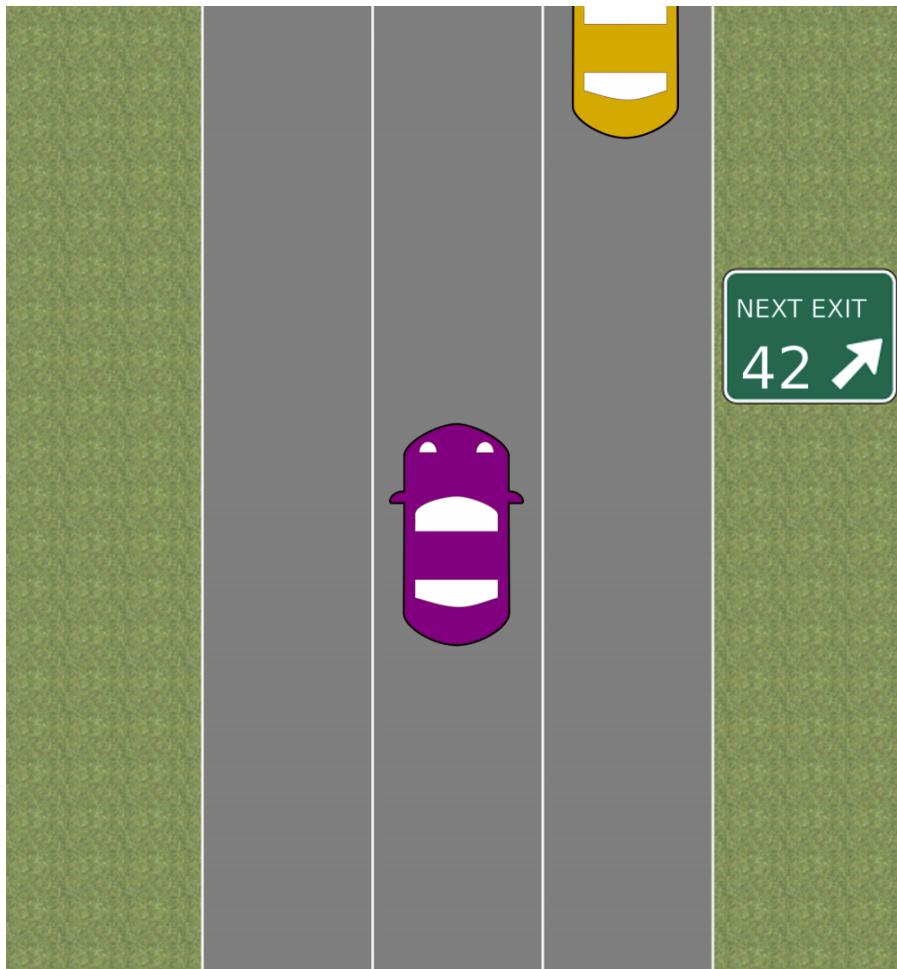
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highway_good_agent_Languages.DNF_True_truthTrue

The computer says:

I merge right when

- One or both of:
 - Both of:
 - a vehicle is not to my right
 - the next exit is 42
 - All of:
 - a vehicle is to my left
 - a vehicle is not to my right
 - a vehicle is in front of me



The computer merges right

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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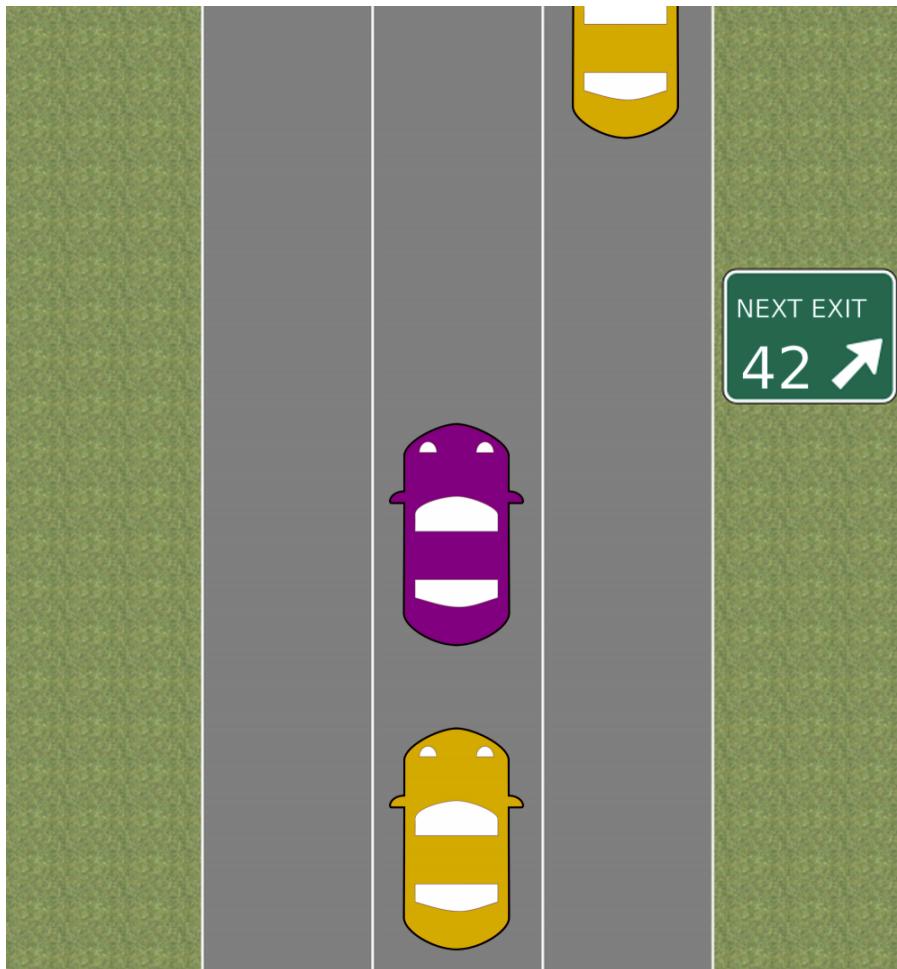
Click Count: *0 clicks*

highway_good_agent_Languages.dDNNF_False_truthTrue

The computer says:

I merge right when

- Both of:
 - a vehicle is not to my right
 - One or both of:
 - the next exit is 42
 - All of:
 - a vehicle is to my left
 - the next exit is not 42
 - a vehicle is in front of me



The computer merges right

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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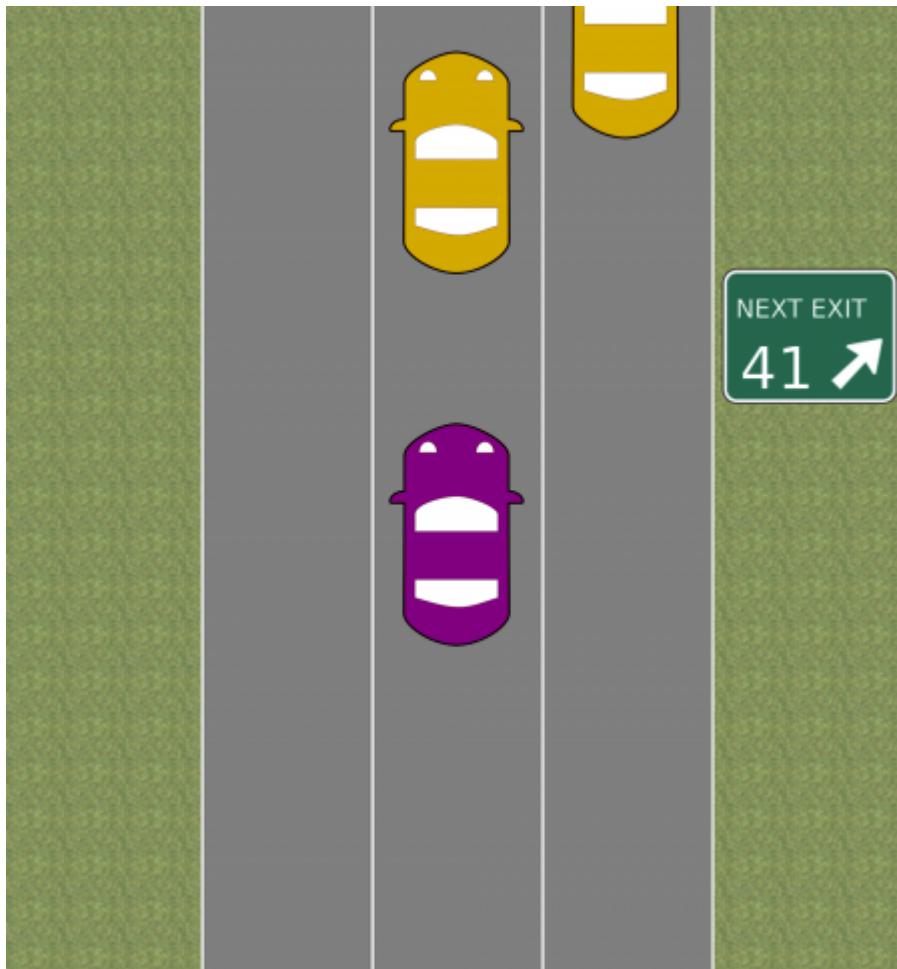
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highway_good_agent_Languages.CNF_False_truthTrue

The computer says:

I slow down when

- All of:
 - One or both of:
 - a vehicle is in front of me
 - the next exit is 42
 - One or both of:
 - a vehicle is not behind me
 - the next exit is 42
 - One or both of:
 - a vehicle is to my right
 - the next exit is not 42



The computer slows down

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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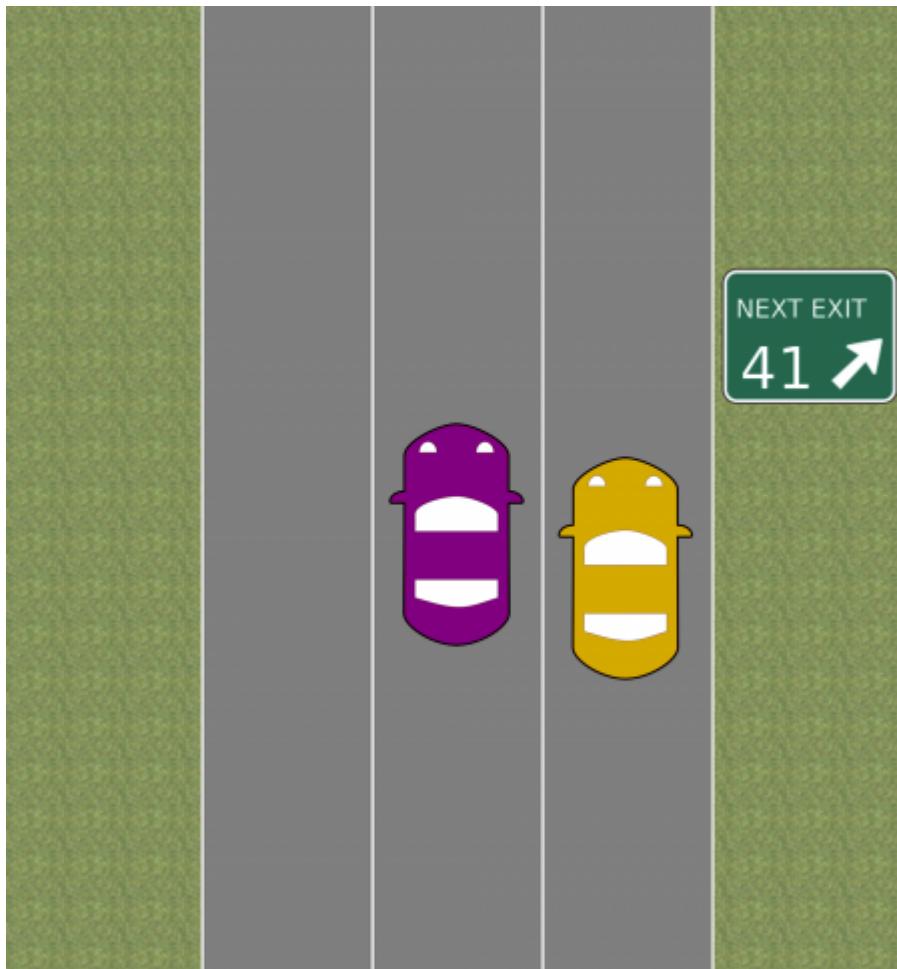
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highway_good_agent_Languages.DNF_False_truthTrue

The computer says:

I speed up when

- One or both of:
 - Both of:
 - a vehicle is not in front of me
 - the next exit is not 42
 - All of:
 - a vehicle is to my right
 - a vehicle is not in front of me
 - a vehicle is behind me



The computer speeds up

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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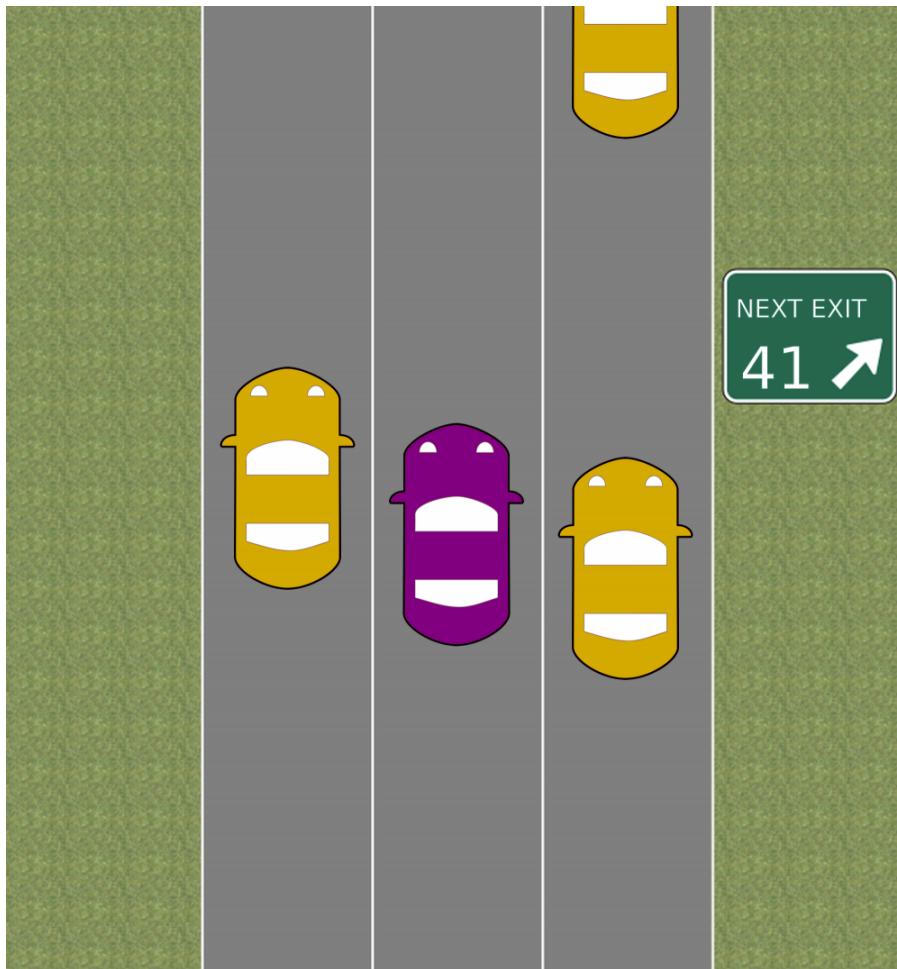
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highway_good_agent_Languages.OBDD_False_truthTrue

The computer says:

I speed up when

- One or more of:
 - All of:
 - a vehicle is not to my right
 - the next exit is not 42
 - a vehicle is not in front of me
 - All of:
 - a vehicle is to my right
 - a vehicle is behind me
 - a vehicle is not in front of me
 - All of:
 - a vehicle is to my right
 - a vehicle is not behind me
 - the next exit is not 42
 - a vehicle is not in front of me



The computer speeds up

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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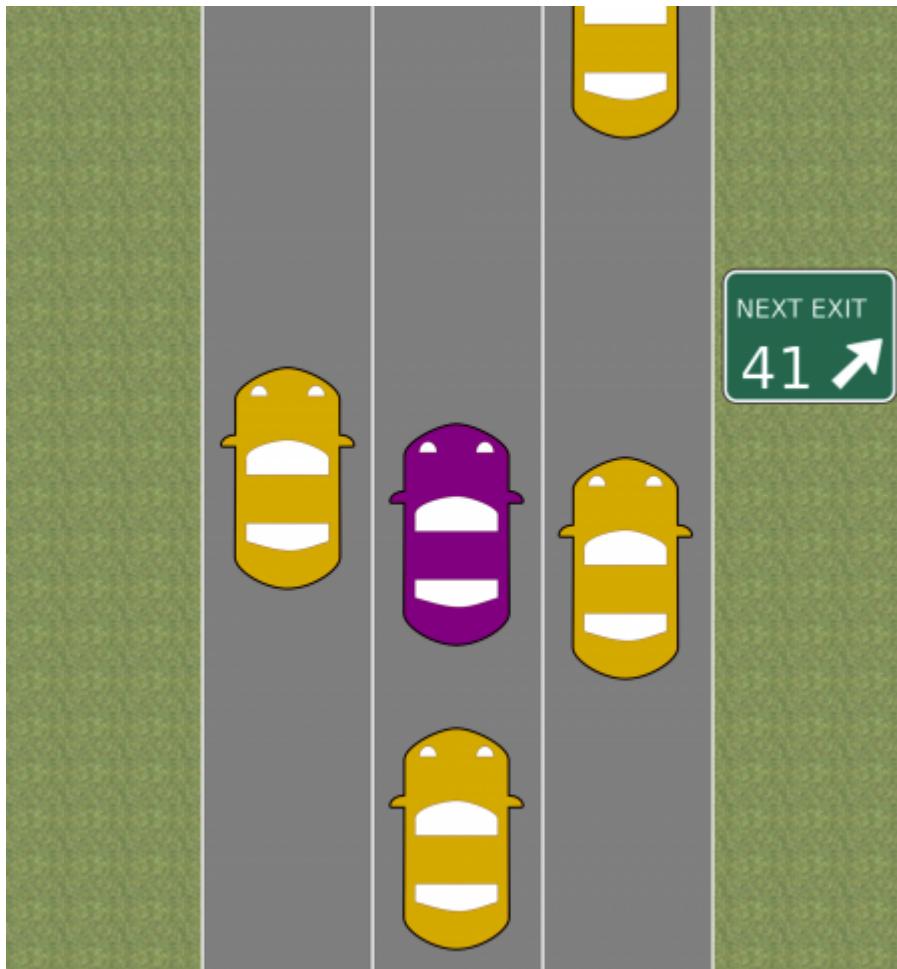
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highway_good_agent_Languages.ODNF_False_truthTrue

The computer says:

I speed up when

- One or both of:
 - Both of:
 - a vehicle is not in front of me
 - the next exit is not 42
 - All of:
 - a vehicle is to my right
 - a vehicle is not in front of me
 - a vehicle is behind me



The computer speeds up

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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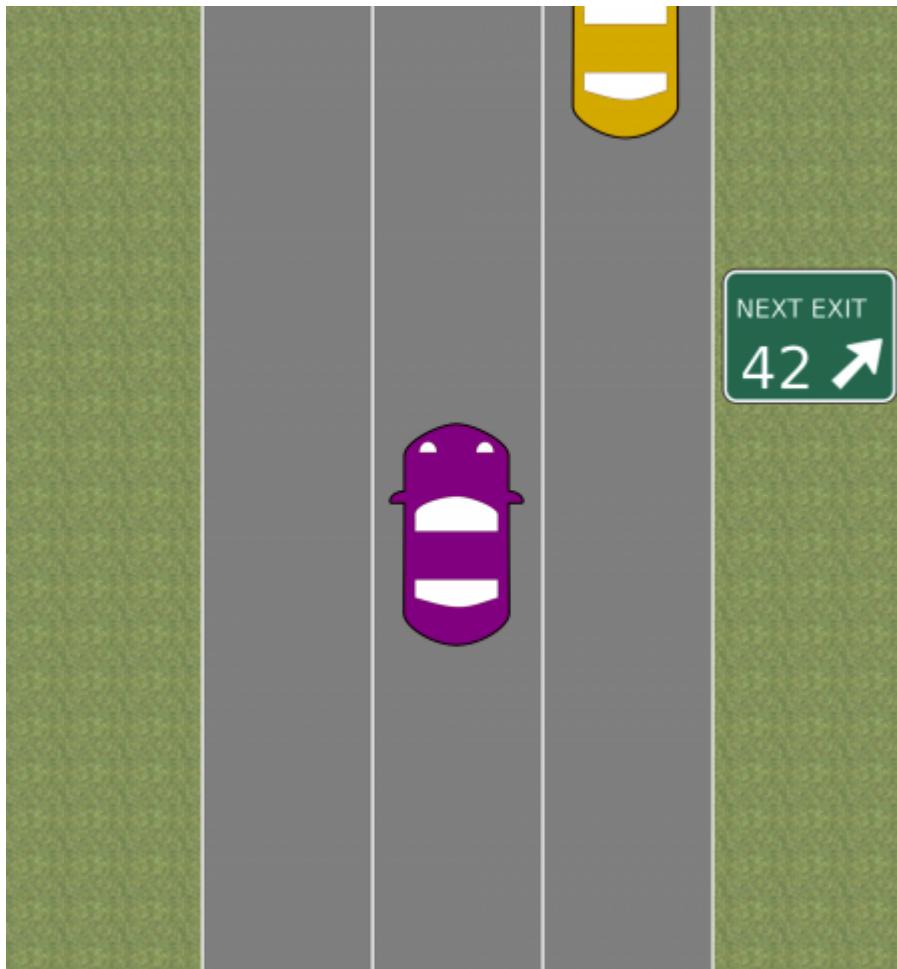
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highway_good_agent_Languages.CNF_True_truthFalse

The computer says:

I merge left when

- None of:
 - a vehicle is to my left
 - the next exit is 42
 - Not both of:
 - a vehicle is in front of me
 - a vehicle is behind me



The computer merges left

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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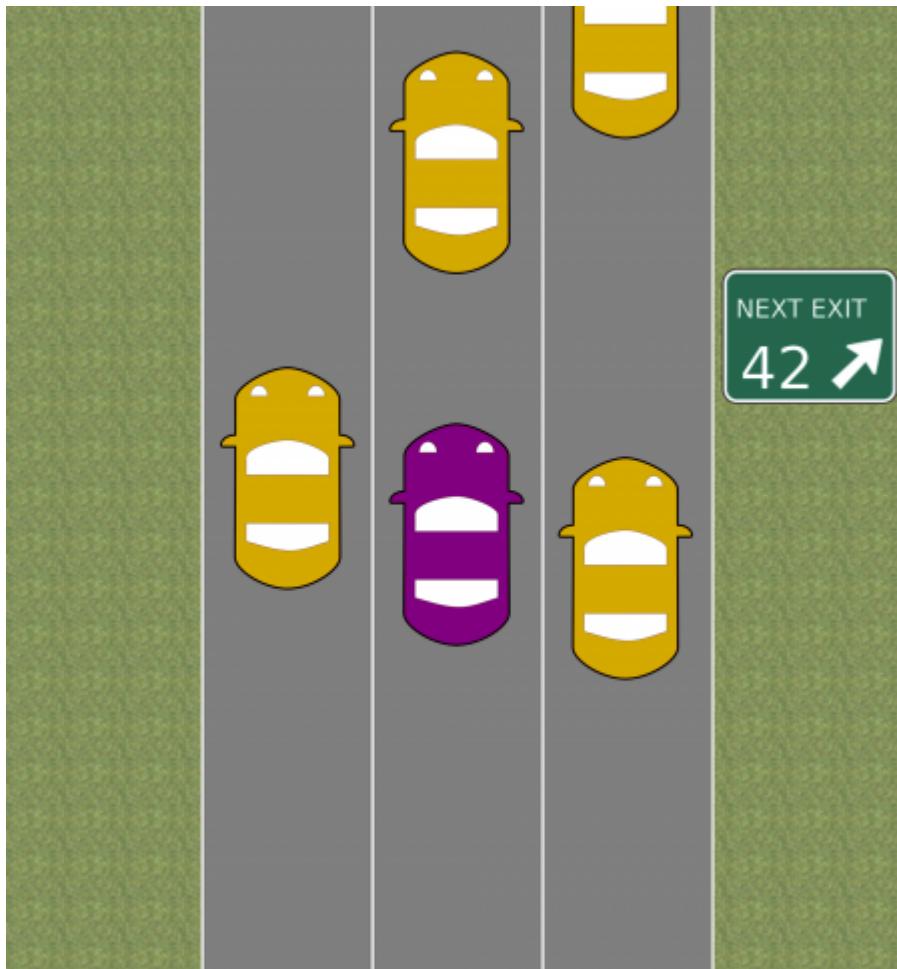
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highway_good_agent_Languages.dDNNF_True_truthFalse

The computer says:

I merge right when

- Both of:
 - a vehicle is not to my right
 - One or both of:
 - the next exit is 42
 - All of:
 - a vehicle is to my left
 - the next exit is not 42
 - a vehicle is in front of me



The computer merges right

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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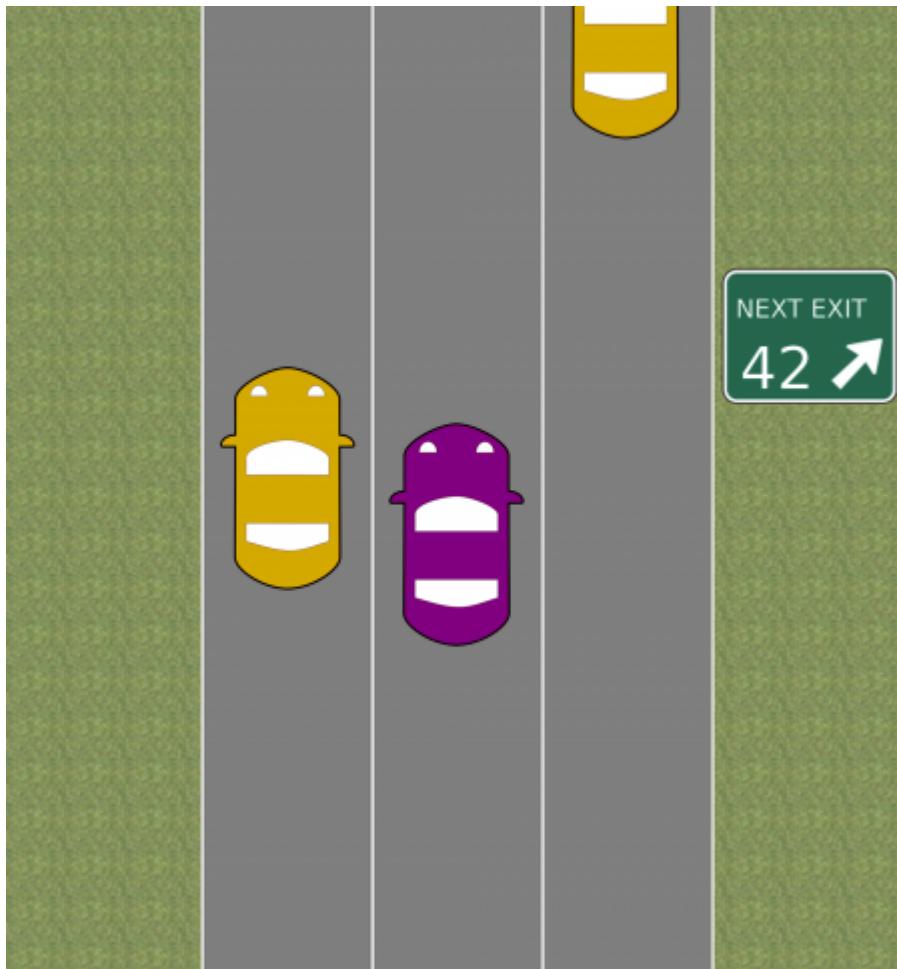
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highway_good_agent_Languages.DNF_True_truthFalse

The computer says:

I slow down when

- One or both of:
 - Both of:
 - a vehicle is to my right
 - the next exit is 42
 - None of:
 - a vehicle is not in front of me
 - a vehicle is behind me
 - the next exit is 42



The computer slows down

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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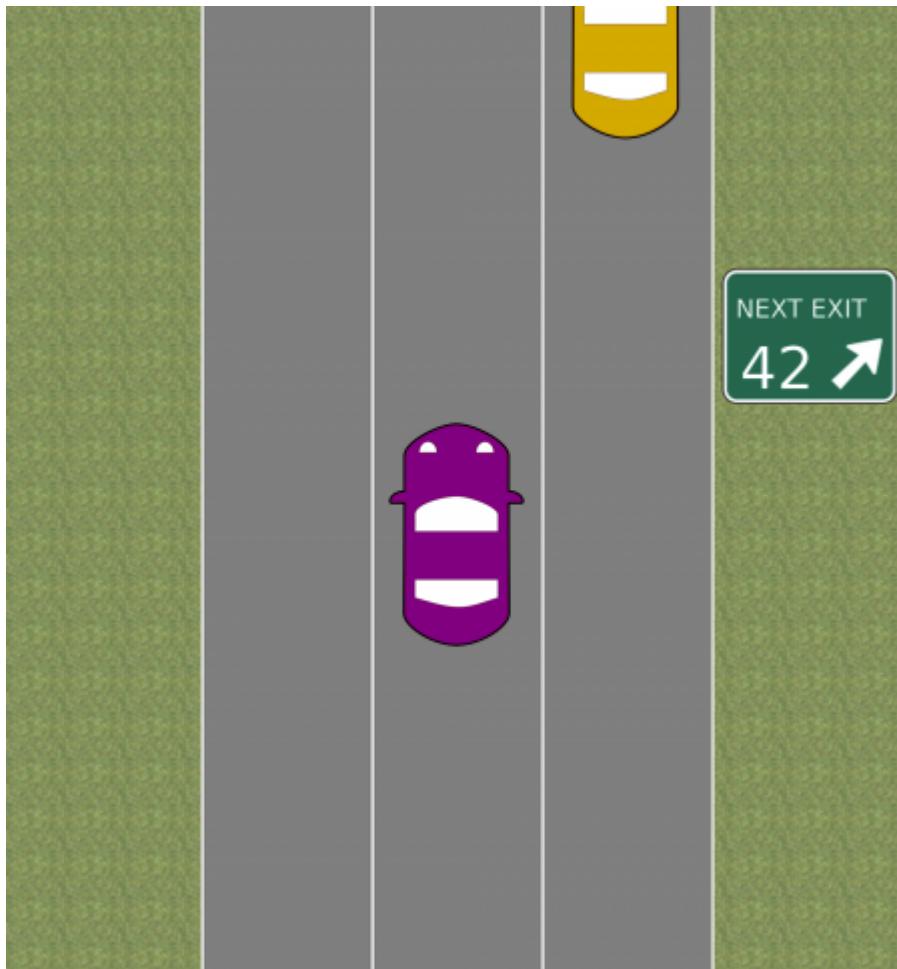
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highway_good_agent_Languages.dDNNF_False_truthFalse

The computer says:

I merge left when

- All of:
 - a vehicle is not to my left
 - the next exit is not 42
 - One or both of:
 - a vehicle is in front of me
 - Both of:
 - a vehicle is not in front of me
 - a vehicle is behind me



The computer merges left

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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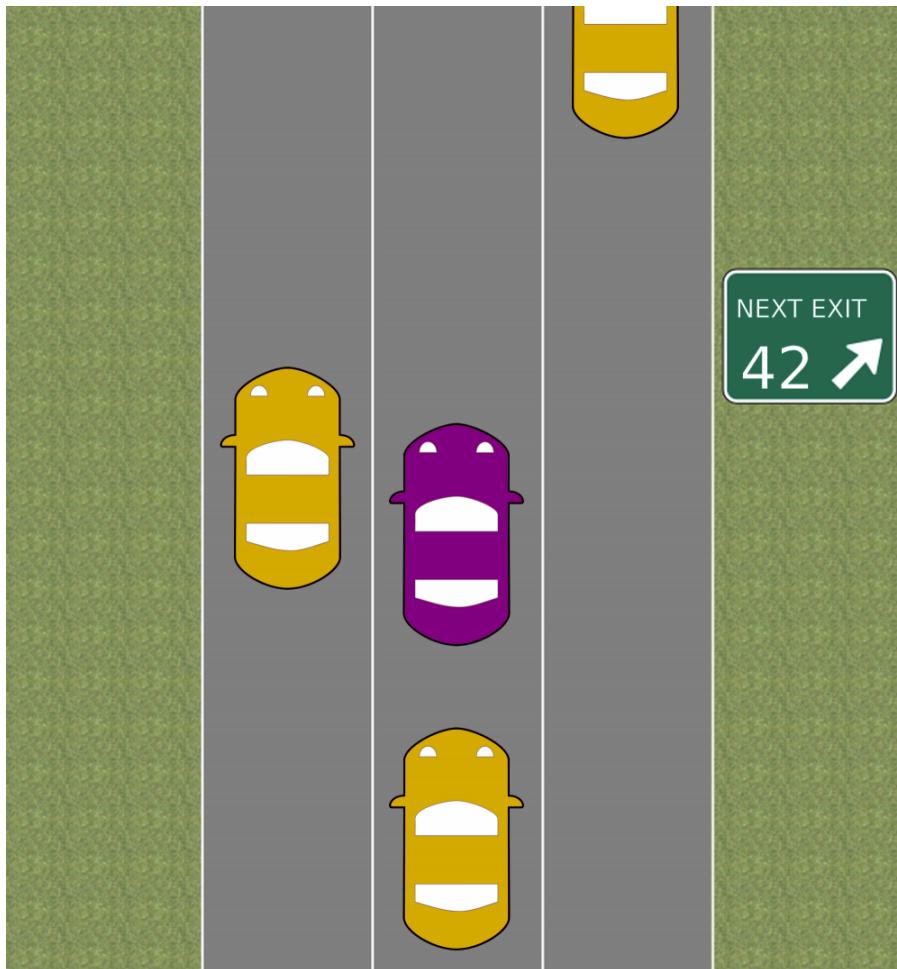
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highway_good_agent_Languages.CNF_False_truthFalse

The computer says:

I slow down when

- All of:
 - One or both of:
 - a vehicle is in front of me
 - the next exit is 42
 - One or both of:
 - a vehicle is not behind me
 - the next exit is 42
 - One or both of:
 - a vehicle is to my right
 - the next exit is not 42



The computer slows down

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
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- Very unconfident

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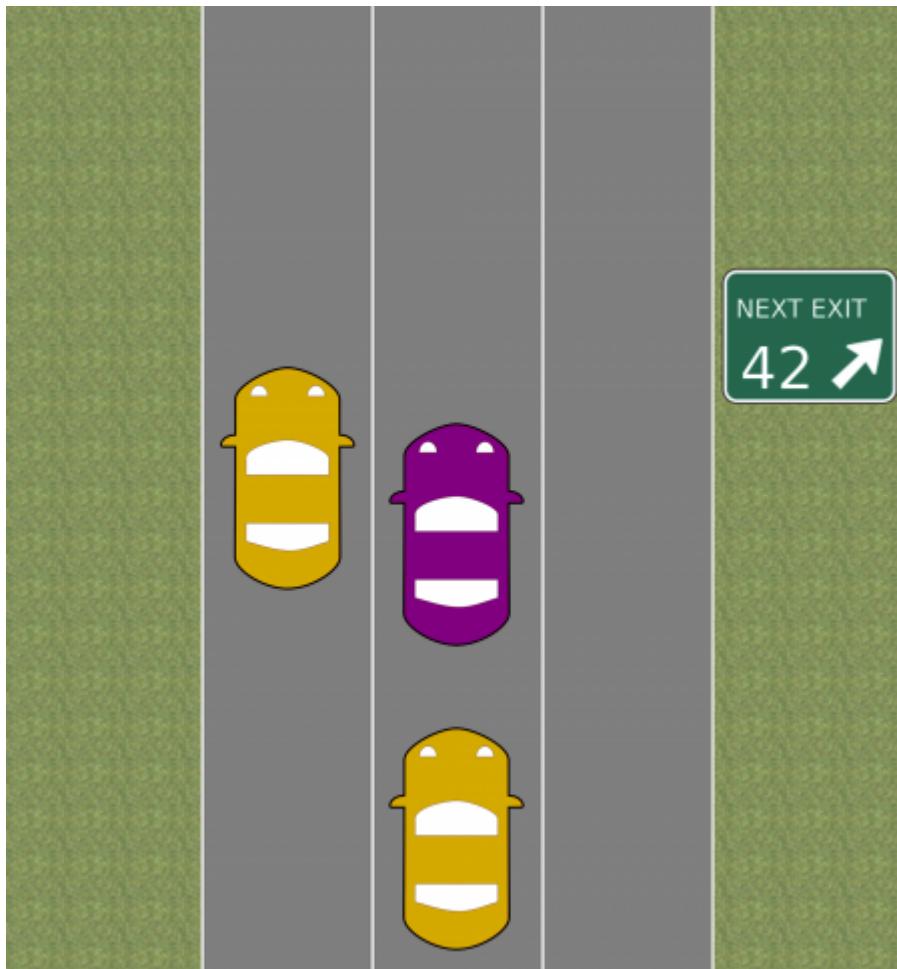
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highway_good_agent_Languages.DNF_False_truthFalse

The computer says:

I speed up when

- One or both of:
 - Both of:
 - a vehicle is not in front of me
 - the next exit is not 42
 - All of:
 - a vehicle is to my right
 - a vehicle is not in front of me
 - a vehicle is behind me



The computer speeds up

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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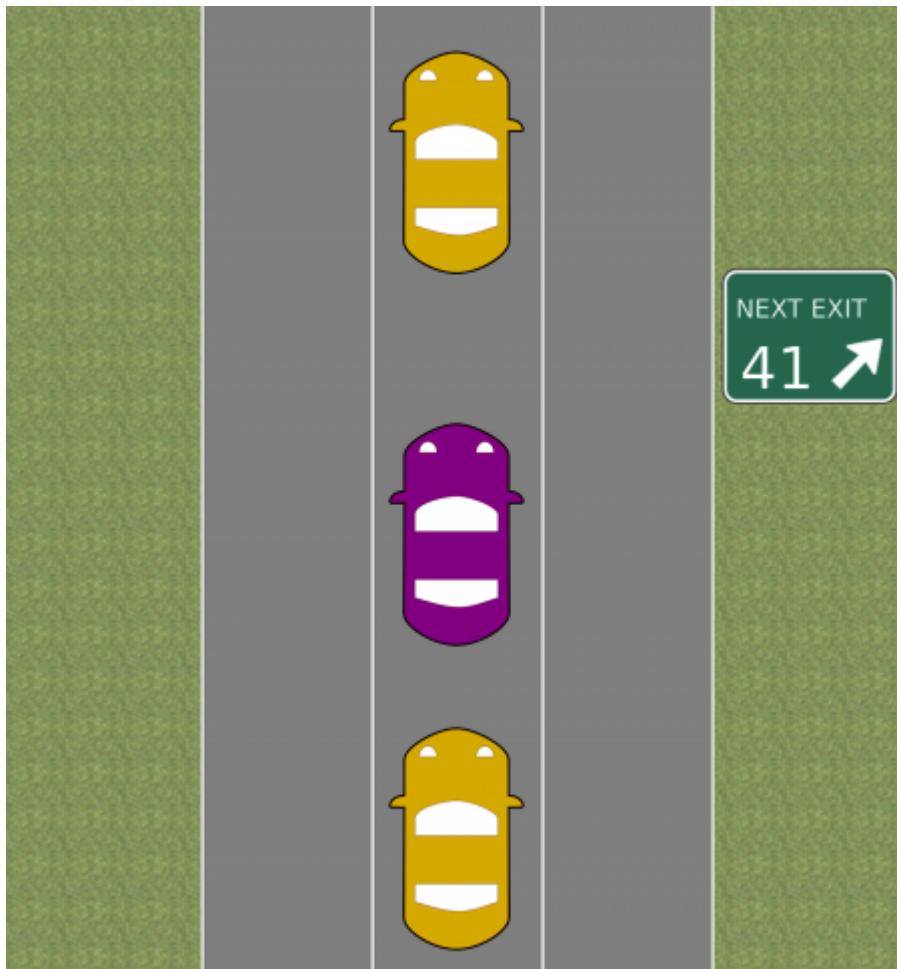
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highway_good_agent_Languages.OBDD_False_truthFalse

The computer says:

I slow down when

- One or more of:
 - All of:
 - a vehicle is to my right
 - a vehicle is not behind me
 - the next exit is 42
 - All of:
 - a vehicle is to my right
 - a vehicle is behind me
 - the next exit is 42
 - All of:
 - a vehicle is not to my right
 - a vehicle is not behind me
 - the next exit is not 42
 - a vehicle is in front of me
 - All of:
 - a vehicle is to my right
 - a vehicle is not behind me
 - the next exit is not 42
 - a vehicle is in front of me



The computer slows down

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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highway_good_agent_Languages.ODNF_False_truthFalse

The computer says:

I merge left when

- One or both of:
 - All of:
 - a vehicle is not to my left
 - a vehicle is in front of me
 - the next exit is not 42
 - All of:
 - a vehicle is not to my left
 - a vehicle is behind me
 - the next exit is not 42



The computer merges left

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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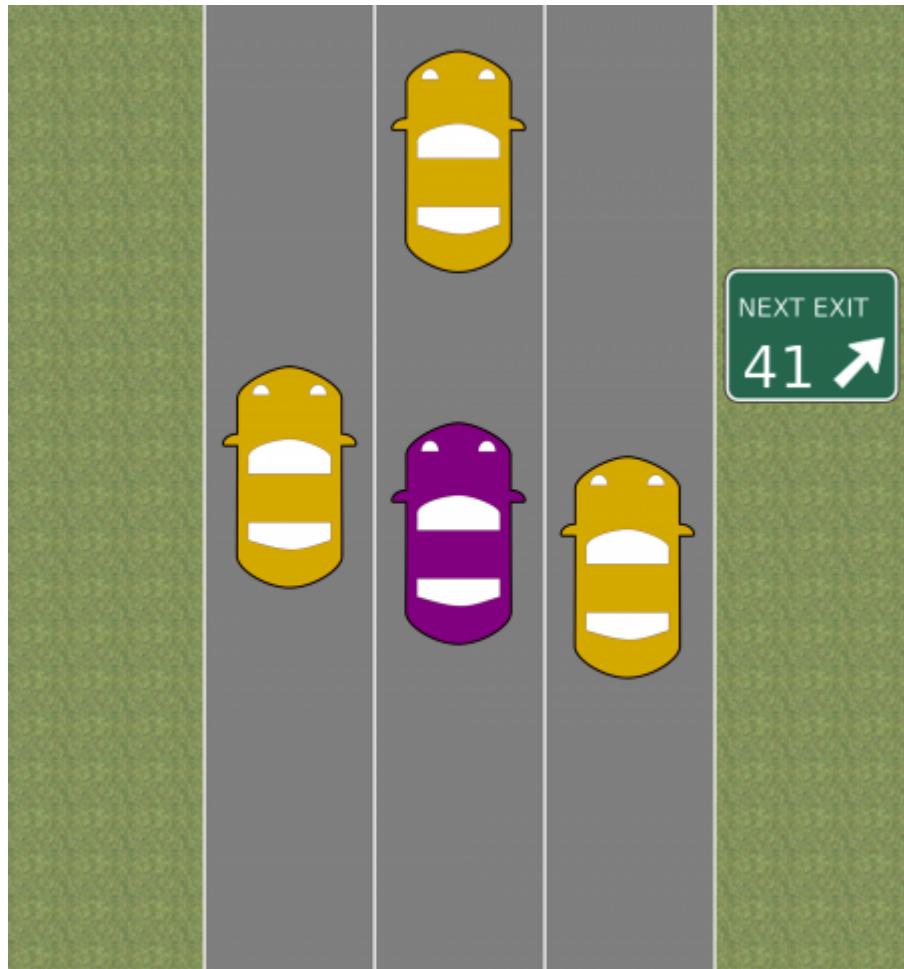
Click Count: 0 clicks

highway_bad_agent_Languages.CNF_True_truthFalse

The computer says:

I merge left when

- All of:
 - a vehicle is to my left
 - a vehicle is not in front of me
 - a vehicle is behind me
 - the next exit is not 42



The computer merges left

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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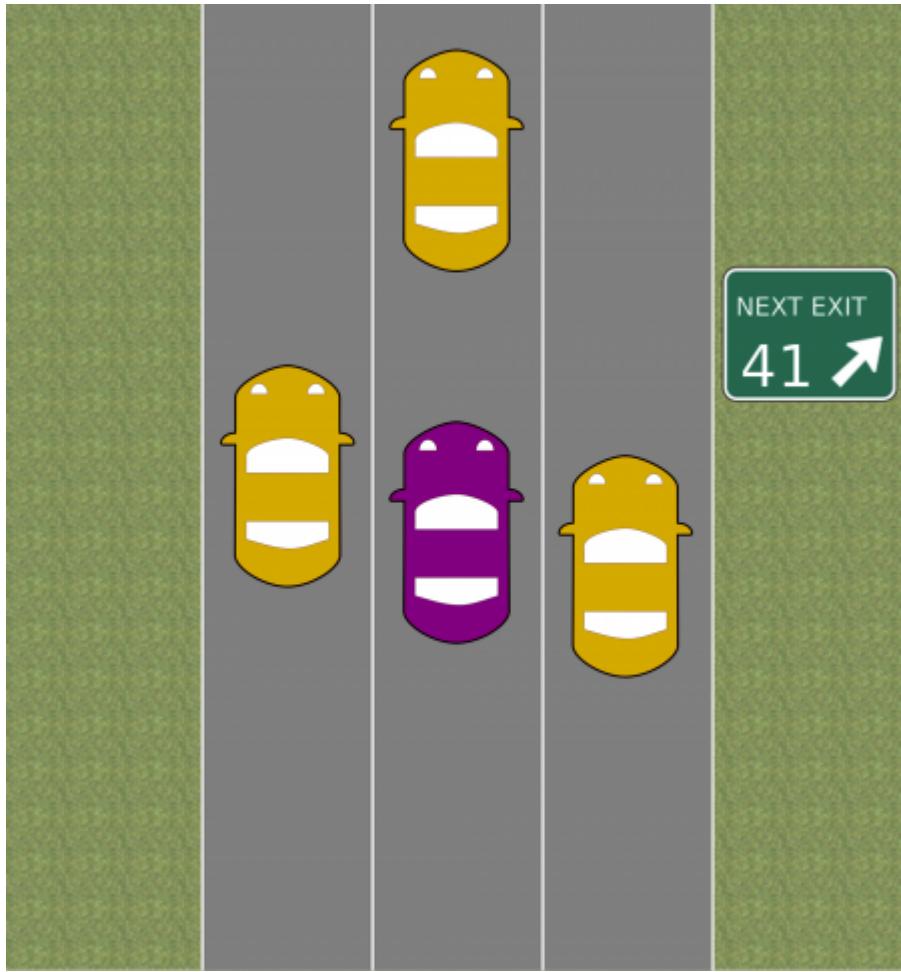
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highway_bad_agent_Languages.dDNNF_False_truthTrue

The computer says:

I speed up when

- Both of:
 - a vehicle is in front of me
 - One or both of:
 - the next exit is not 42
 - All of:
 - a vehicle is to my right
 - the next exit is 42
 - a vehicle is behind me



The computer speeds up

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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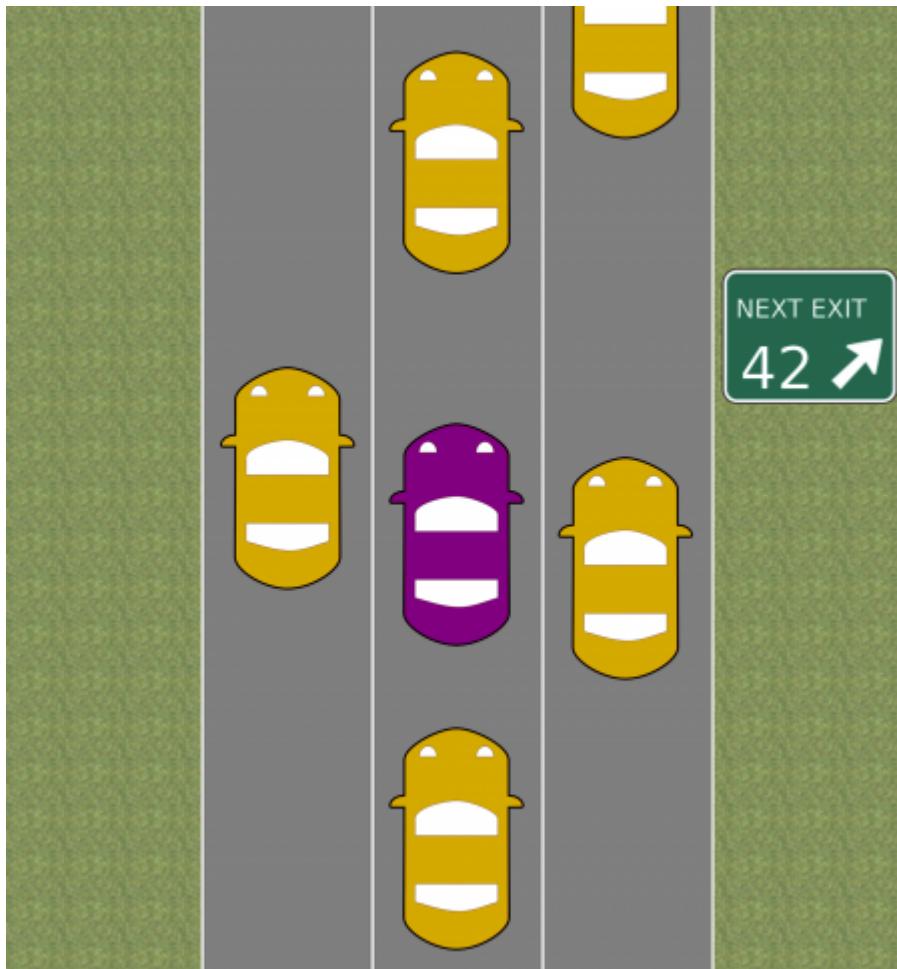
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highway_bad_agent_Languages.DNF_False_truthTrue

The computer says:

I speed up when

- One or both of:
 - Both of:
 - a vehicle is in front of me
 - the next exit is not 42
 - All of:
 - a vehicle is to my right
 - a vehicle is in front of me
 - a vehicle is behind me



The computer speeds up

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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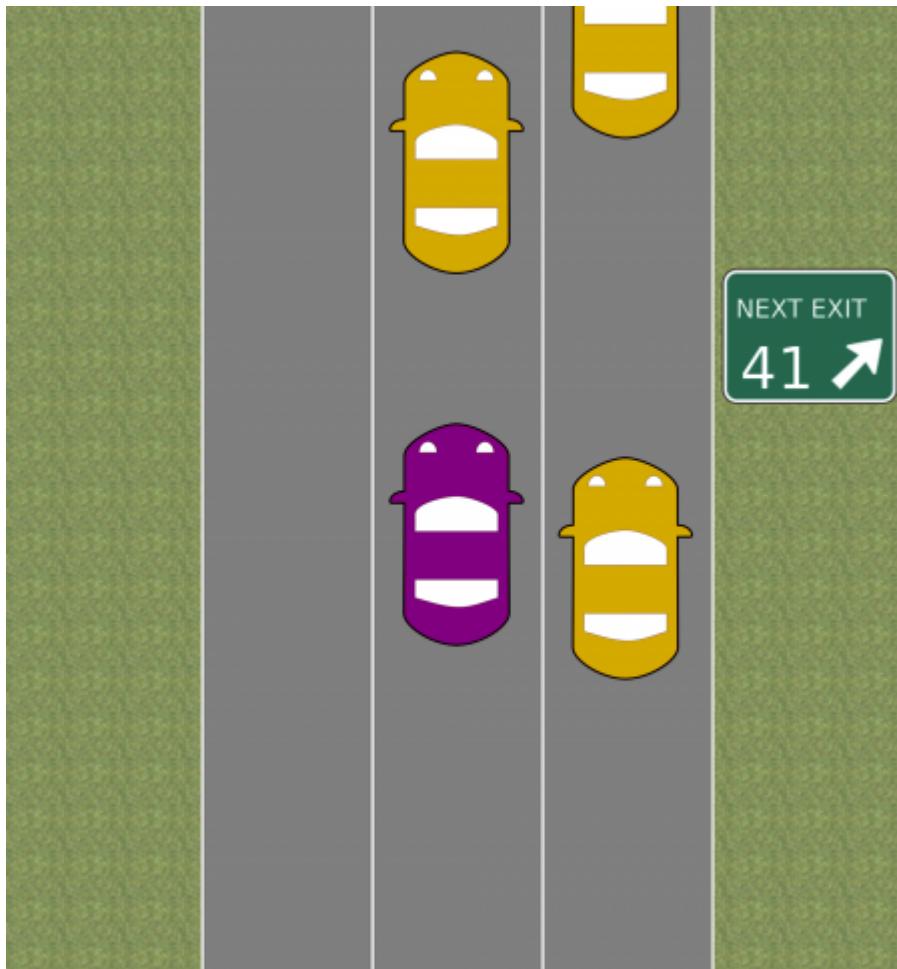
Click Count: *0 clicks*

highway_bad_agent_Languages.ODNF_False_truthTrue

The computer says:

I speed up when

- One or both of:
 - Both of:
 - a vehicle is in front of me
 - the next exit is not 42
 - All of:
 - a vehicle is to my right
 - a vehicle is in front of me
 - a vehicle is behind me



The computer speeds up

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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NASA_tlx_highway

The following questions pertain just to the last section.



Mental demand:

How mentally demanding was the task?

Physical demand:

How physically demanding was the task?

Temporal Demand:

How hurried or rushed was the pace of the task?

Performance: How successful were you in accomplishing what you were asked to do?

Effort: How hard did you have to work to accomplish your level of performance?

Frustration: How insecure, discouraged, irritated, stressed, and annoyed were you?

emergency_instructions

In this section, we will show you a series of images of patient charts in an emergency triage scenario. A computer will give you instructions for what triage action it would take; **you should follow the computer's instructions.**

The computer might be faulty. It might tell you it will take an action which you disagree with. **You should not try to correct the computer's decisions.**

The computer might say:

I triage as urgent when

- Both of:
 - patient is breathing
 - respiratory rate is between 10 and 30

PATIENT TRIAGE CHART

Patient is alert and able to move No

Patient is breathing No

Patient is able to breathe after opening airway Yes

Patient's respiratory rate 33

Patient's capillary refill time 3 . 0

Patient's pulse 53

The computer triages as urgent

Yes

No

How confident are you of your answer?

Very confident

Somewhat confident

Neutral

Somewhat unconfident

Very unconfident

emergency_good_agent_Languages.CNF_True_truthTrue

The computer says:

I triage as immediate when

- None of:
 - Not both of:
 - patient is able to breathe after opening airway
 - patient is breathing
 - One or more of:
 - capillary refill takes less than 2 seconds
 - patient is breathing
 - respiratory rate is between 10 and 30
 - One or more of:
 - pulse is between 40 and 70
 - respiratory rate is between 10 and 30
 - patient is breathing

PATIENT TRIAGE CHART

Patient is alert and able to move	No
Patient is breathing	Yes
Patient is able to breathe after opening airway	Yes
Patient's respiratory rate	43
Patient's capillary refill time	0.7
Patient's pulse	11

The computer triages as immediate

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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emergency_good_agent_Languages.dDNNF_True_truthTrue

The computer says:

I triage as immediate when

- One or both of:
 - Both of:
 - patient is not breathing
 - patient is able to breathe after opening airway
 - Both of:
 - patient is breathing
 - Not both of:
 - respiratory rate is between 10 and 30
 - All of:
 - capillary refill takes less than 2 seconds
 - respiratory rate is not between 10 and 30
 - pulse is between 40 and 70

PATIENT TRIAGE CHART

Patient is alert and able to move No

Patient is breathing No

Patient is able to breathe after opening airway Yes

Patient's respiratory rate 11

Patient's capillary refill time 1 . 8

Patient's pulse 23

The computer triages as immediate

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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emergency_good_agent_Languages.DNF_True_truthTrue

The computer says:

I triage as immediate when

- One or more of:
 - Both of:
 - patient is breathing
 - respiratory rate is not between 10 and 30
 - Both of:
 - patient is not breathing
 - patient is able to breathe after opening airway
 - None of:

- patient is not breathing
- capillary refill takes less than 2 seconds
- pulse is between 40 and 70

PATIENT TRIAGE CHART

Patient is alert and able to move No

Patient is breathing Yes

Patient is able to breathe after opening airway Yes

Patient's respiratory rate 41

Patient's capillary refill time 0.8

Patient's pulse 21

The computer triages as immediate

Yes

No

How confident are you of your answer?

Very confident

Somewhat confident

Neutral

Somewhat unconfident

Very unconfident

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emergency_good_agent_Languages.dDNNF_False_truthTrue

The computer says:

I triage as urgent when

- All of:
 - patient is breathing
 - respiratory rate is between 10 and 30
- One or both of:
 - pulse is between 40 and 70
 - Both of:
 - pulse is not between 40 and 70
 - capillary refill takes less than 2 seconds

PATIENT TRIAGE CHART

Patient is alert and able to move	No
Patient is breathing	Yes
Patient is able to breathe after opening airway	Yes
Patient's respiratory rate	25
Patient's capillary refill time	1.9
Patient's pulse	50

The computer triages as urgent

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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emergency_good_agent_Languages.CNF_False_truthTrue

The computer says:

I triage as immediate when

- All of:
 - One or both of:
 - patient is able to breathe after opening airway
 - patient is breathing
 - One or more of:
 - capillary refill does not take less than 2 seconds
 - patient is not breathing
 - respiratory rate is not between 10 and 30
 - One or more of:
 - pulse is not between 40 and 70
 - respiratory rate is not between 10 and 30
 - patient is not breathing

PATIENT TRIAGE CHART

Patient is alert and able to move No

Patient is breathing No

Patient is able to breathe after opening airway Yes

Patient's respiratory rate 36

Patient's capillary refill time 1 . 7

Patient's pulse 36

The computer triages as immediate

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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emergency_good_agent_Languages.DNF_False_truthTrue

The computer says:

I triage as immediate when

- One or more of:
 - Both of:
 - patient is breathing
 - respiratory rate is not between 10 and 30
 - Both of:
 - patient is not breathing
 - patient is able to breathe after opening airway
 - All of:

- patient is breathing
- capillary refill does not take less than 2 seconds
- pulse is not between 40 and 70

PATIENT TRIAGE CHART

Patient is alert and able to move No

Patient is breathing No

Patient is able to breathe after opening airway Yes

Patient's respiratory rate 37

Patient's capillary refill time 0 . 6

Patient's pulse 46

The computer triages as immediate

Yes

No

How confident are you of your answer?

Very confident

Somewhat confident

Neutral

Somewhat unconfident

Very unconfident

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emergency_good_agent_Languages.Obdd_False_truthTrue

The computer says:

I triage as urgent when

- One or both of:
 - All of:
 - patient is breathing
 - respiratory rate is between 10 and 30
 - capillary refill takes less than 2 seconds
 - All of:
 - patient is breathing
 - respiratory rate is between 10 and 30
 - capillary refill does not take less than 2 seconds
 - pulse is between 40 and 70

PATIENT TRIAGE CHART

Patient is alert and able to move	No
Patient is breathing	Yes
Patient is able to breathe after opening airway	Yes
Patient's respiratory rate	17
Patient's capillary refill time	2.1
Patient's pulse	68

The computer triages as urgent

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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emergency_good_agent_Languages.ODNF_False_truthTrue

The computer says:

I triage as immediate when

- One or more of:
 - Both of:
 - patient is breathing
 - respiratory rate is not between 10 and 30
 - Both of:
 - patient is not breathing
 - patient is able to breathe after opening airway
 - All of:
 - patient is breathing
 - capillary refill does not take less than 2 seconds
 - pulse is not between 40 and 70

PATIENT TRIAGE CHART

Patient is alert and able to move No

Patient is breathing No

Patient is able to breathe after opening airway Yes

Patient's respiratory rate 7

Patient's capillary refill time 0 . 5

Patient's pulse 37

The computer triages as immediate

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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emergency_good_agent_Languages.CNF_True_truthFalse

The computer says:

I triage as urgent when

- One or both of:
 - All of:
 - patient is breathing
 - respiratory rate is between 10 and 30
 - capillary refill takes less than 2 seconds
 - All of:
 - patient is breathing
 - respiratory rate is between 10 and 30
 - capillary refill does not take less than 2 seconds

- pulse is between 40 and 70

PATIENT TRIAGE CHART

Patient is alert and able to move	No
Patient is breathing	Yes
Patient is able to breathe after opening airway	Yes
Patient's respiratory rate	32
Patient's capillary refill time	3.3
Patient's pulse	56

The computer triages as urgent

- Yes
 No

How confident are you of your answer?

- Very confident
 Somewhat confident
 Neutral
 Somewhat unconfident
 Very unconfident

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emergency_good_agent_Languages.dDNNF_True_truthTrue

The computer says:

I triage as immediate when

- One or both of:
 - Both of:
 - patient is not breathing
 - patient is able to breathe after opening airway
 - Both of:
 - patient is breathing
 - Not both of:
 - respiratory rate is between 10 and 30
 - All of:
 - capillary refill takes less than 2 seconds
 - respiratory rate is not between 10 and 30
 - pulse is between 40 and 70

PATIENT TRIAGE CHART

Patient is alert and able to move	No
Patient is breathing	Yes
Patient is able to breathe after opening airway	Yes
Patient's respiratory rate	14
Patient's capillary refill time	1.7
Patient's pulse	39

The computer triages as immediate

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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emergency_good_agent_Languages.DNF_True_truthFalse

The computer says:

I triage as urgent when

- One or both of:
 - All of:
 - patient is breathing
 - respiratory rate is between 10 and 30
 - pulse is between 40 and 70
 - All of:
 - patient is breathing
 - respiratory rate is between 10 and 30
 - capillary refill takes less than 2 seconds

PATIENT TRIAGE CHART

Patient is alert and able to move

No

Patient is breathing

No

Patient is able to breathe after opening airway Yes

Patient's respiratory rate

32

Patient's capillary refill time

1 . 8

Patient's pulse

97

The computer triages as urgent

Yes

No

How confident are you of your answer?

Very confident

Somewhat confident

Neutral

Somewhat unconfident

Very unconfident

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emergency_good_agent_Languages.dDNNF_True_truthFalse

The computer says:

I triage as urgent when

- All of:
 - patient is breathing
 - respiratory rate is between 10 and 30
 - One or both of:
 - pulse is between 40 and 70
 - Both of:
 - pulse is not between 40 and 70
 - capillary refill takes less than 2 seconds

PATIENT TRIAGE CHART

Patient is alert and able to move	No
Patient is breathing	No
Patient is able to breathe after opening airway	Yes
Patient's respiratory rate	18
Patient's capillary refill time	0.7
Patient's pulse	81

The computer triages as urgent

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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emergency_good_agent_Languages.CNF_False_truthFalse

The computer says:

I triage as urgent when

- All of:
 - patient is breathing
 - respiratory rate is between 10 and 30
 - One or both of:
 - pulse is between 40 and 70
 - capillary refill takes less than 2 seconds

PATIENT TRIAGE CHART

Patient is alert and able to move No

Patient is breathing No

Patient is able to breathe after opening airway Yes

Patient's respiratory rate 23

Patient's capillary refill time 2 . 4

Patient's pulse 43

The computer triages as urgent

- Yes
 No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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emergency_good_agent_Languages.DNF_False_truthFalse

The computer says:

I triage as urgent when

- One or both of:
 - All of:
 - patient is breathing
 - respiratory rate is between 10 and 30
 - pulse is between 40 and 70
 - All of:
 - patient is breathing
 - respiratory rate is between 10 and 30
 - capillary refill takes less than 2 seconds

PATIENT TRIAGE CHART

Patient is alert and able to move	No
Patient is breathing	No
Patient is able to breathe after opening airway	Yes
Patient's respiratory rate	41
Patient's capillary refill time	3.0
Patient's pulse	13

The computer triages as urgent

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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emergency_good_agent_Languages.Obdd_False_truthFalse

The computer says:

I triage as urgent when

- One or both of:
 - All of:
 - patient is breathing
 - respiratory rate is between 10 and 30
 - capillary refill takes less than 2 seconds
 - All of:
 - patient is breathing
 - respiratory rate is between 10 and 30
 - capillary refill does not take less than 2 seconds
 - pulse is between 40 and 70

PATIENT TRIAGE CHART

Patient is alert and able to move No

Patient is breathing No

Patient is able to breathe after opening airway Yes

Patient's respiratory rate 24

Patient's capillary refill time 3.3

Patient's pulse 43

The computer triages as urgent

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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emergency_good_agent_Languages.ODNF_False_truthFalse

The computer says:

I triage as urgent when

- One or both of:
 - All of:
 - patient is breathing
 - respiratory rate is between 10 and 30
 - pulse is between 40 and 70
 - All of:
 - patient is breathing
 - respiratory rate is between 10 and 30
 - capillary refill takes less than 2 seconds

PATIENT TRIAGE CHART

Patient is alert and able to move No

Patient is breathing No

Patient is able to breathe after opening airway Yes

Patient's respiratory rate 36

Patient's capillary refill time 0.8

Patient's pulse 64

The computer triages as urgent

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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emergency_bad_agent_Languages.CNF_True_truthFalse

The computer says:

I triage as urgent when

- None of:
 - Not both of:
 - patient is able to breathe after opening airway
 - patient is breathing
 - One or more of:
 - capillary refill takes less than 2 seconds
 - patient is breathing
 - respiratory rate is between 10 and 30
 - One or more of:
 - pulse is between 40 and 70
 - respiratory rate is between 10 and 30
 - patient is breathing

PATIENT TRIAGE CHART

Patient is alert and able to move	No
Patient is breathing	Yes
Patient is able to breathe after opening airway	Yes
Patient's respiratory rate	15
Patient's capillary refill time	3.1
Patient's pulse	24

The computer triages as urgent

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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emergency_bad_agent_Languages.dDNNF_False_truthTrue

The computer says:

I triage as urgent when

- One or both of:
 - Both of:
 - patient is not breathing
 - patient is able to breathe after opening airway
 - Both of:
 - patient is breathing
 - One or both of:
 - respiratory rate is not between 10 and 30
 - All of:
 - capillary refill does not take less than 2 seconds
 - respiratory rate is between 10 and 30
 - pulse is not between 40 and 70

PATIENT TRIAGE CHART

Patient is alert and able to move No

Patient is breathing No

Patient is able to breathe after opening airway Yes

Patient's respiratory rate 13

Patient's capillary refill time 2 . 7

Patient's pulse 28

The computer triages as urgent

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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emergency_bad_agent_Languages.DNF_False_truthTrue

The computer says:

I triage as immediate when

- One or both of:
 - All of:
 - patient is breathing
 - respiratory rate is between 10 and 30
 - pulse is between 40 and 70
 - All of:
 - patient is breathing
 - respiratory rate is between 10 and 30

- capillary refill takes less than 2 seconds

PATIENT TRIAGE CHART

Patient is alert and able to move	No
Patient is breathing	Yes
Patient is able to breathe after opening airway	Yes
Patient's respiratory rate	17
Patient's capillary refill time	0.6
Patient's pulse	52

The computer triages as immediate

- Yes
 No

How confident are you of your answer?

- Very confident
 Somewhat confident
 Neutral
 Somewhat unconfident
 Very unconfident

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emergency_bad_agent_Languages.ODNF_False_truthTrue

The computer says:

I triage as urgent when

- One or more of:
 - Both of:
 - patient is breathing
 - respiratory rate is not between 10 and 30
 - Both of:
 - patient is not breathing
 - patient is able to breathe after opening airway
 - All of:
 - patient is breathing
 - capillary refill does not take less than 2 seconds
 - pulse is not between 40 and 70

PATIENT TRIAGE CHART

Patient is alert and able to move	No
Patient is breathing	No
Patient is able to breathe after opening airway	Yes
Patient's respiratory rate	33
Patient's capillary refill time	3.0
Patient's pulse	53

The computer triages as urgent

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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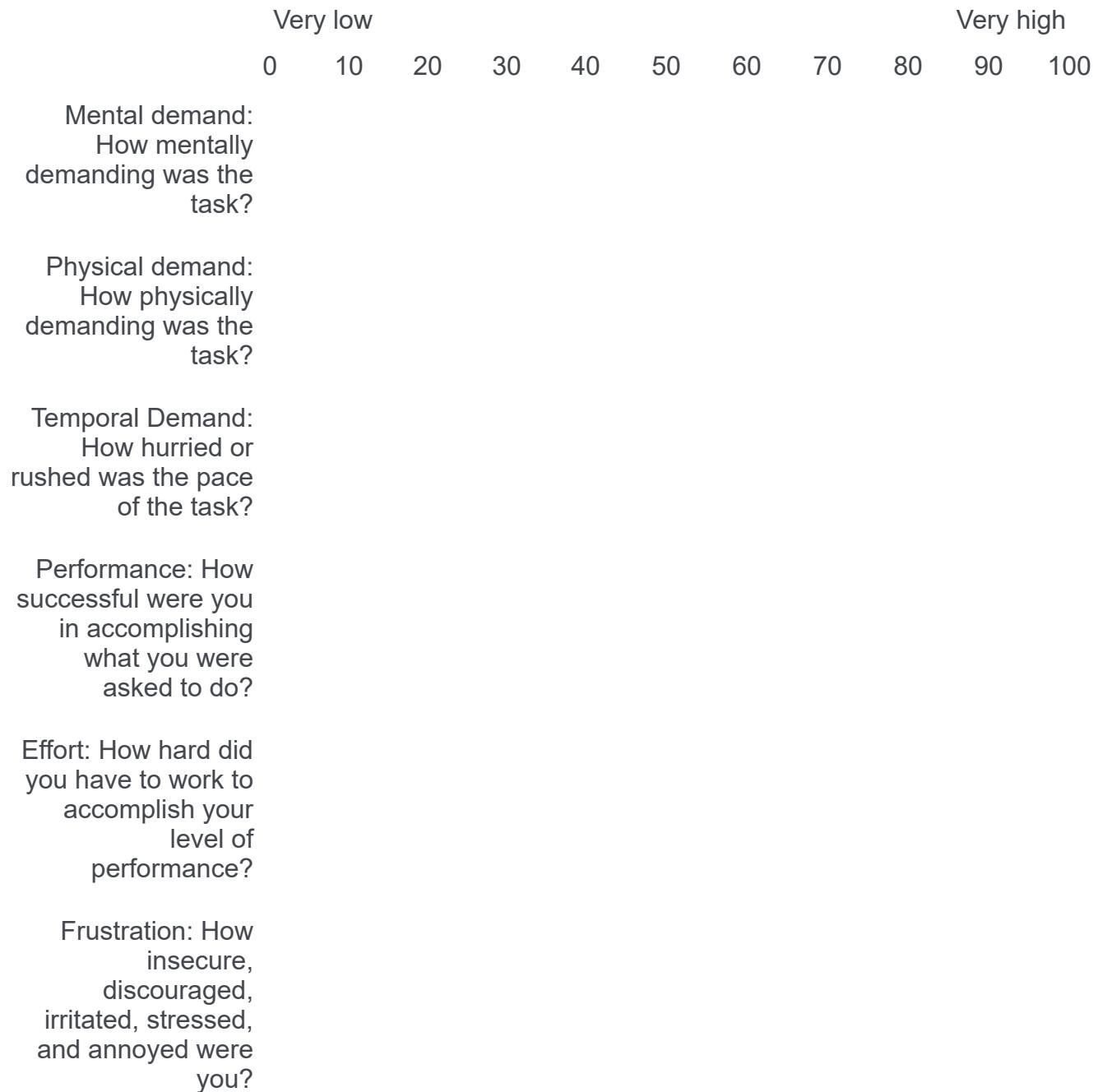
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NASA_tlx_emergency

The following questions pertain just to the last section.

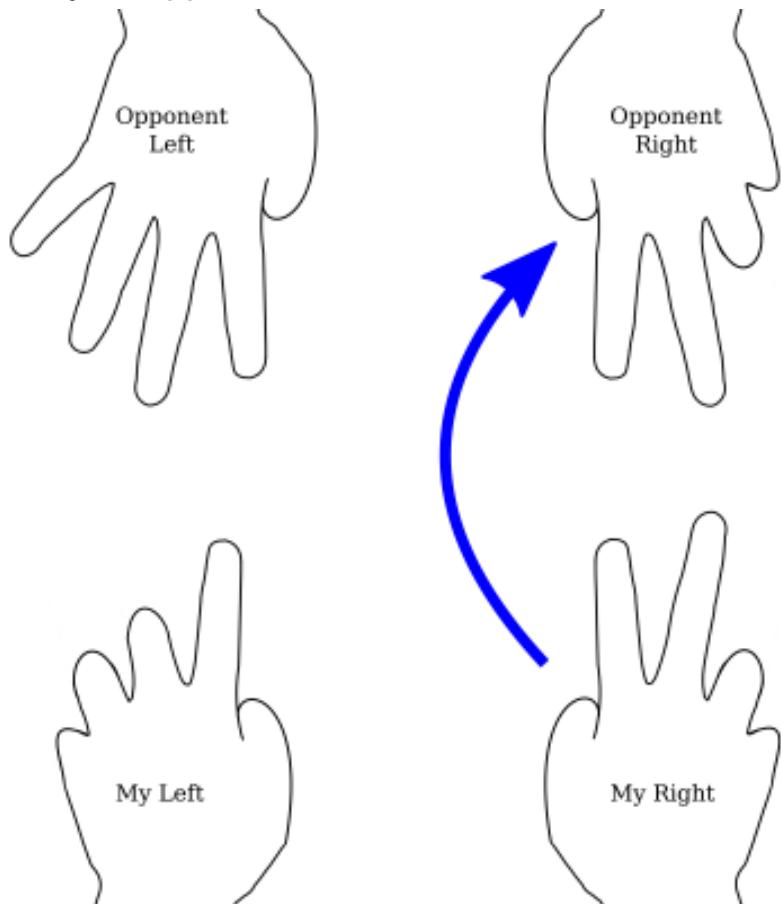


Chopsticks Instructions

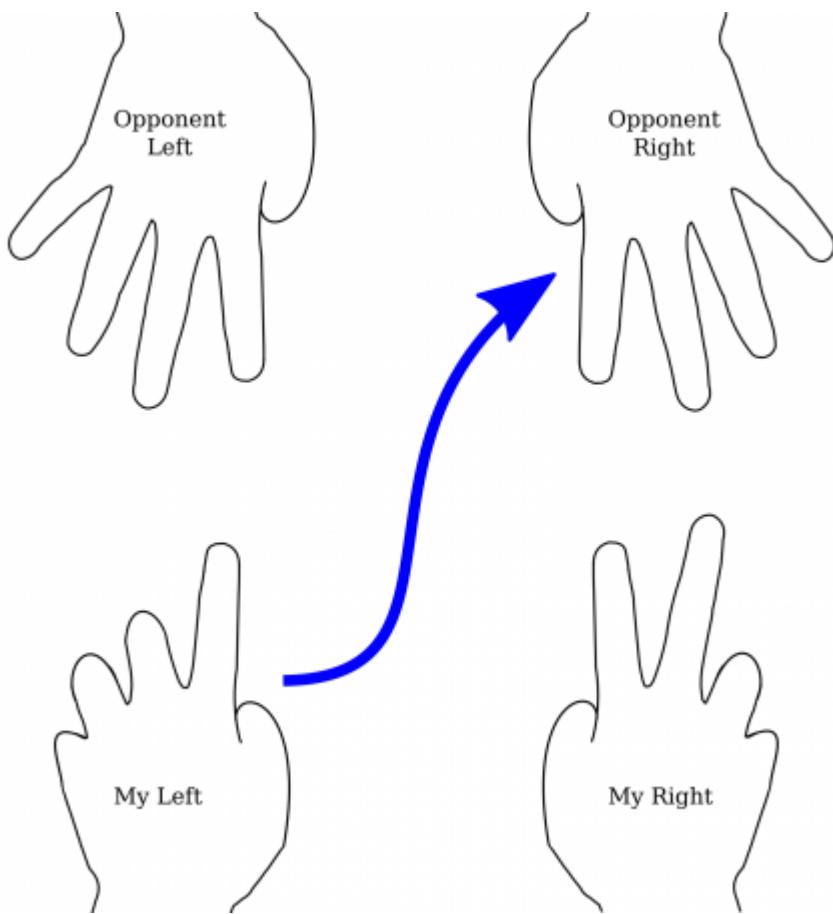
In this section, you will play a game with an opponent, but you will receive instructions from a computer.

Chopsticks is an adding game, which is typically played on your hands.

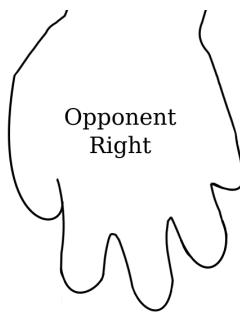
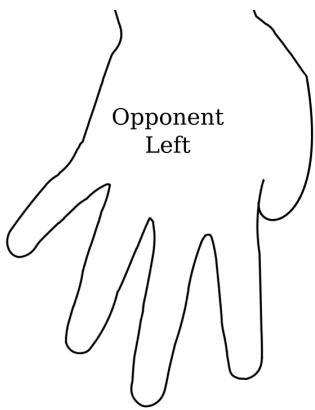
For each image, you can "tap" one of your opponent's hands with one of your own. Doing so adds the number of fingers extended on the hand you tap with to the opponent's hand which you tapped.



As in the figure above, imagine you have 1 finger extended on your left hand, 2 fingers extended on your right hand, and your opponent has 4 fingers extended on their left hand and 2 fingers extended on their right hand. If you tap your right hand to their right hand (as shown in the figure above), your opponent will then have 4 fingers extended on their right hand, and 4 fingers extended on their left. Your hands will not have changed. The figure below shows this ending state.



If you then have the hand configuration above (1 on your left, 2 on your right, 4 on your opponent's left and 4 on your opponent's right), and you add your left hand to your opponent's right hand ($1 + 4$), your opponent will have 0 fingers extended. **Note that the sum must add to exactly 5!** Your opponent's right hand is then "out."



If the sum adds to more than 5, your opponent's hand is NOT out.

chopsticks_instructions_2

For each question, a computer will describe an action and the conditions under which it may take that action.

Accompanying this description, an image will show the state of the your hands and your opponent's hands.

You must determine whether to take the action **based on what the computer tells you it would do.**

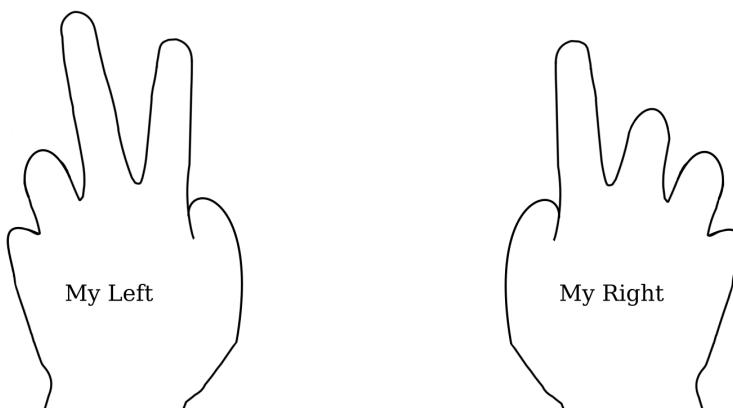
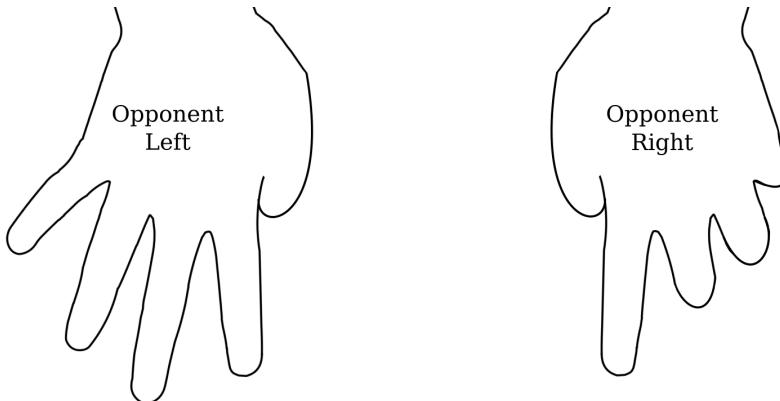
The computer might be faulty. It might tell you it will take an action which is not allowed, or which is not an optimal game move to play. **You should not try to correct the**

computer's decisions. For example, if the computer tells you it would add your left hand to your opponent's right hand, but your left hand has 0 fingers extended, you should still answer that you will add your left hand to your opponent's right hand.

The computer might say:

I add my right hand to my opponent's left hand when

- One or both of:
 - my left hand outs my opponent's right hand
 - my right hand outs my opponent's left hand



You add your right hand to your opponent's left hand

Yes

No

How confident are you of your answer?

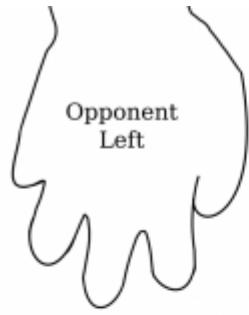
- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

chopsticks_good_agent_Languages.CNF_True_truthTrue

The computer says:

I add my left hand to my opponent's left hand when

- All of:
 - One or both of:
 - my left hand is not out
 - my left hand outs my opponent's left hand
 - One or both of:
 - my right hand does not out my opponent's left hand
 - my left hand outs my opponent's left hand
 - One or both of:
 - my left hand does not out my opponent's right hand
 - my left hand outs my opponent's left hand
 - One or both of:
 - my right hand does not out my opponent's right hand
 - my left hand outs my opponent's left hand



You add your left hand to your opponent's left hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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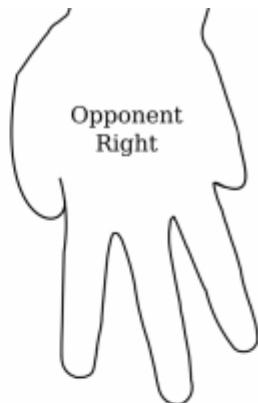
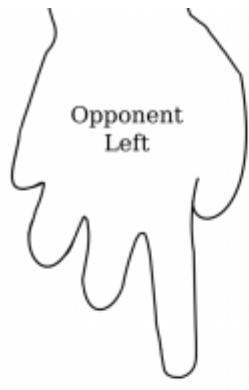
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chopsticks_good_agent_Languages.dDNNF_True_truthTrue

The computer says:

I add my left hand to my opponent's left hand when

- One or both of:
 - my left hand outs my opponent's left hand
 - None of:
 - my left hand is out
 - my left hand outs my opponent's left hand
 - my right hand outs my opponent's left hand
 - my left hand outs my opponent's right hand
 - my right hand outs my opponent's right hand



You add your left hand to your opponent's left hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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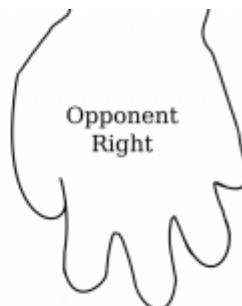
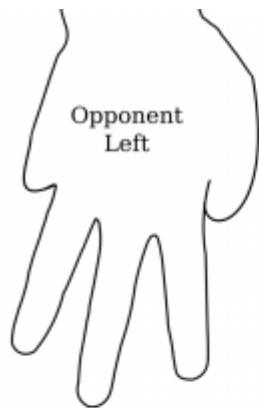
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chopsticks_good_agent_Languages.DNF_True_truthTrue

The computer says:

I add my right hand to my opponent's left hand when

- One or both of:
 - my right hand outs my opponent's left hand
 - None of:
 - my left hand is not out
 - my right hand is out
 - my right hand outs my opponent's right hand



You add your right hand to your opponent's left hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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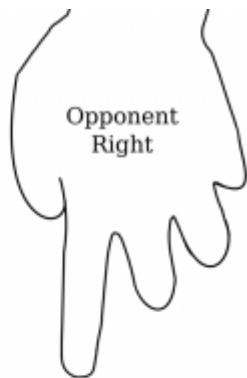
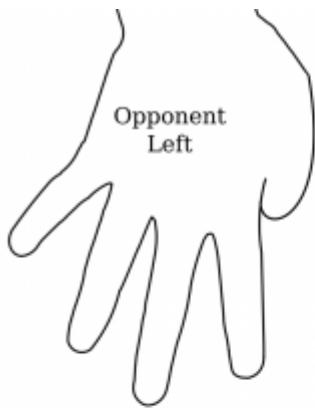
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chopsticks_good_agent_Languages.dDNNF_False_truthTrue

The computer says:

I add my left hand to my opponent's left hand when

- One or both of:
 - my left hand outs my opponent's left hand
 - All of:
 - my left hand is not out
 - my left hand does not out my opponent's left hand
 - my right hand does not out my opponent's left hand
 - my left hand does not out my opponent's right hand
 - my right hand does not out my opponent's right hand



You add your left hand to your opponent's left hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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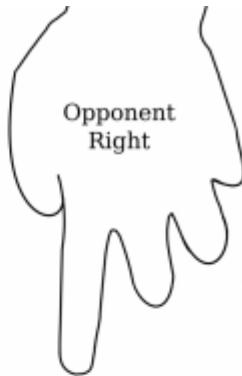
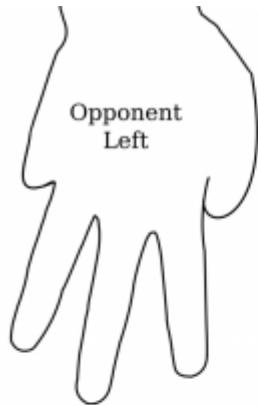
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chopsticks_good_agent_Languages.CNF_False_truthTrue

The computer says:

I add my right hand to my opponent's left hand when

- All of:
 - One or both of:
 - my left hand is out
 - my right hand outs my opponent's left hand
 - One or both of:
 - my right hand is not out
 - my right hand outs my opponent's left hand
 - One or both of:
 - my right hand does not out my opponent's right hand
 - my right hand outs my opponent's left hand



You add your right hand to your opponent's left hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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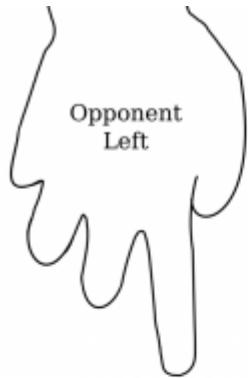
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chopsticks_good_agent_Languages.DNF_False_truthTrue

The computer says:

I add my left hand to my opponent's left hand when

- One or both of:
 - my left hand outs my opponent's left hand
 - All of:
 - my left hand is not out
 - my right hand does not out my opponent's left hand
 - my left hand does not out my opponent's right hand
 - my right hand does not out my opponent's right hand



You add your left hand to your opponent's left hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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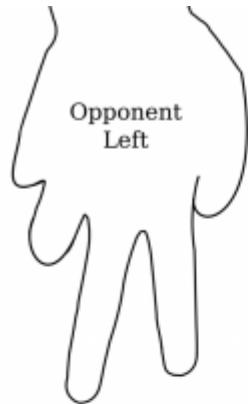
chopsticks_good_agent_Languages.OBDD_False_truthTrue

The computer says:

I add my left hand to my opponent's left hand when

- One or more of:
 - Both of:
 - my left hand is not out
 - my left hand outs my opponent's left hand
 - Both of:
 - my left hand is out
 - my left hand outs my opponent's left hand
 - All of:
 - my left hand is not out

- my left hand does not out my opponent's left hand
- my right hand does not out my opponent's left hand
- my left hand does not out my opponent's right hand
- my right hand does not out my opponent's right hand



You add your left hand to your opponent's left hand?

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident

Very unconfident

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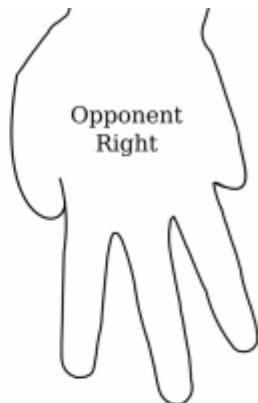
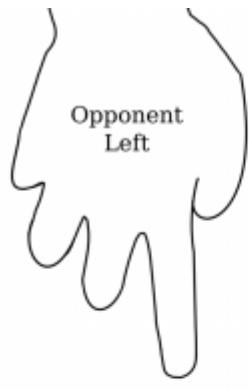
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chopsticks_good_agent_Languages.ODNF_False_truthTrue

The computer says:

I add my left hand to my opponent's right hand when

- One or both of:
 - Both of:
 - my left hand does not out my opponent's left hand
 - my left hand outs my opponent's right hand
 - All of:
 - my left hand is not out
 - my left hand does not out my opponent's left hand
 - my right hand does not out my opponent's left hand
 - my right hand does not out my opponent's right hand



You add your left hand to your opponent's right hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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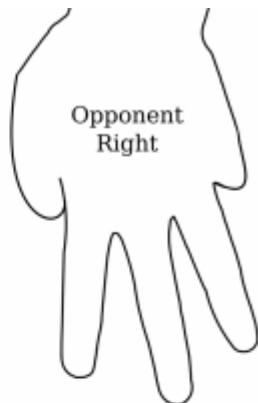
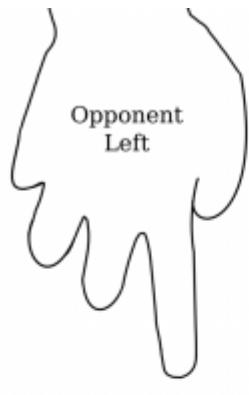
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chopsticks_good_agent_Languages.CNF_True_truthFalse

I add my left hand to my opponent's right hand when

- All of:
 - my left hand does not out my opponent's left hand
 - One or both of:
 - my left hand is not out
 - my left hand outs my opponent's right hand
 - One or both of:
 - my right hand does not out my opponent's left hand
 - my left hand outs my opponent's right hand
 - One or both of:
 - my right hand does not out my opponent's right hand
 - my left hand outs my opponent's right hand



You add your left hand to your opponent's right hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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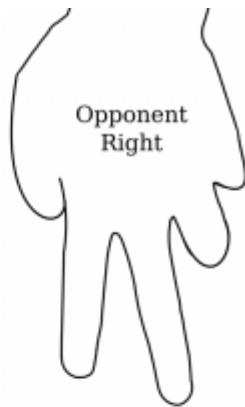
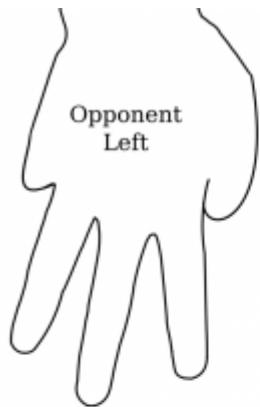
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chopsticks_good_agent_Languages.dDNNF_True_truthFalse

The computer says:

I add my left hand to my opponent's right hand when

- Both of:
 - my left hand does not out my opponent's left hand
 - One or both of:
 - my left hand outs my opponent's right hand
 - None of:
 - my left hand is out
 - my left hand outs my opponent's right hand
 - my right hand outs my opponent's left hand
 - my right hand outs my opponent's right hand



You add your left hand to your opponent's right hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neither
- Somewhat unconfident
- Very unconfident

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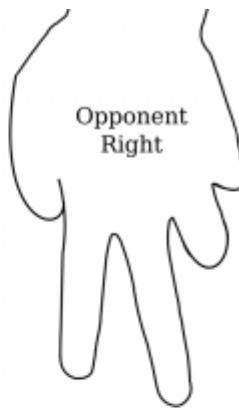
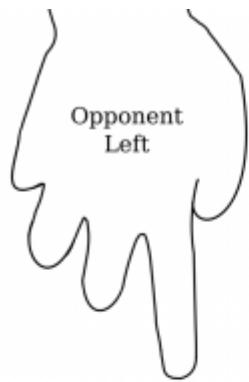
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chopsticks_good_agent_Languages.DNF_True_truthFalse

The computer says:

I add my right hand to my opponent's left hand when

- One or both of:
 - my right hand outs my opponent's left hand
 - None of:
 - my left hand is not out
 - my right hand is out
 - my right hand outs my opponent's right hand



You add your right hand to your opponent's left hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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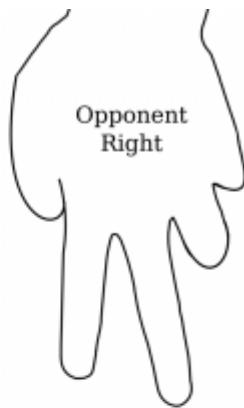
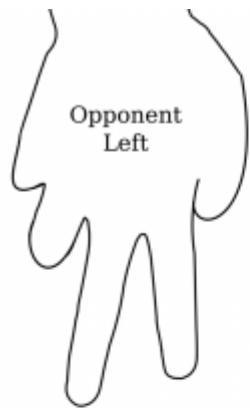
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chopsticks_good_agent_Languages.dDNNF_False_truthFalse

The computer says:

I add my right hand to my opponent's right hand when

- Both of:
 - my right hand does not out my opponent's left hand
 - One or both of:
 - my right hand outs my opponent's right hand
 - All of:
 - my left hand is out
 - my right hand does not out my opponent's right hand
 - my right hand is not out



You add your right hand to your opponent's right hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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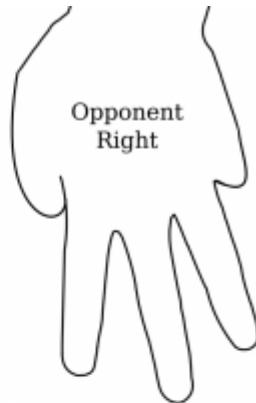
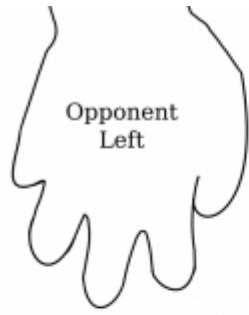
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chopsticks_good_agent_Languages.CNF_False_truthFalse

The computer says:

I add my left hand to my opponent's left hand when

- All of:
 - One or both of:
 - my left hand is not out
 - my left hand outs my opponent's left hand
 - One or both of:
 - my right hand does not out my opponent's left hand
 - my left hand outs my opponent's left hand
 - One or both of:
 - my left hand does not out my opponent's right hand
 - my left hand outs my opponent's left hand
 - One or both of:
 - my right hand does not out my opponent's right hand
 - my left hand outs my opponent's left hand



You add your left hand to your opponent's left hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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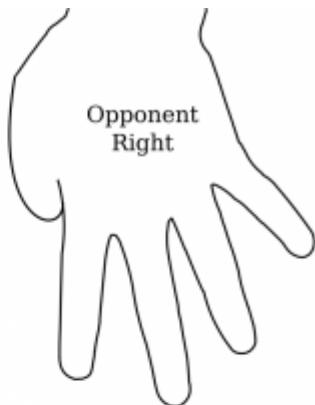
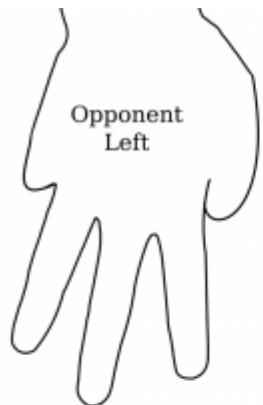
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chopsticks_good_agent_Languages.DNF_False_truthFalse

The computer says:

I add my right hand to my opponent's right hand when

- One or both of:
 - Both of:
 - my right hand does not out my opponent's left hand
 - my right hand outs my opponent's right hand
 - All of:
 - my left hand is out
 - my right hand is not out
 - my right hand does not out my opponent's left hand



You add your right hand to your opponent's right hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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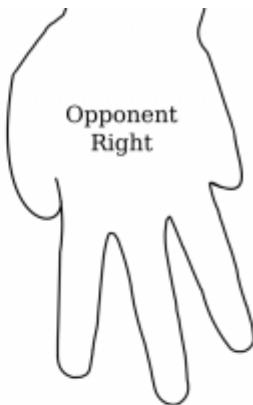
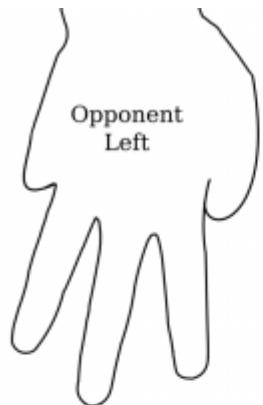
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chopsticks_good_agent_Languages.Obdd_False_truthFalse

The computer says:

I add my right hand to my opponent's right hand when

- One or more of:
 - All of:
 - my left hand is not out
 - my right hand does not out my opponent's left hand
 - my right hand outs my opponent's right hand
 - All of:
 - my left hand is out
 - my right hand does not out my opponent's left hand
 - my right hand outs my opponent's right hand
 - All of:
 - my left hand is out
 - my right hand does not out my opponent's left hand
 - my right hand does not out my opponent's right hand
 - my right hand is not out



You add your right hand to your opponent's right hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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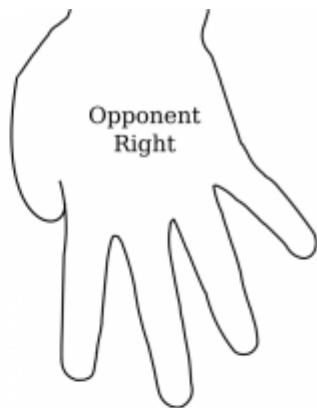
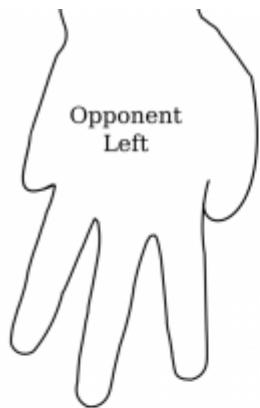
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chopsticks_good_agent_Languages.ODNF_False_truthFalse

The computer says:

I add my right hand to my opponent's left hand when

- One or both of:
 - my right hand outs my opponent's left hand
 - All of:
 - my left hand is out
 - my right hand is not out
 - my right hand does not out my opponent's right hand



You add your right hand to your opponent's left hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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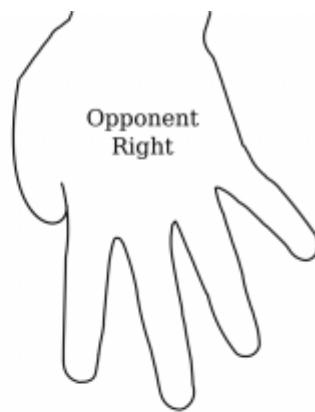
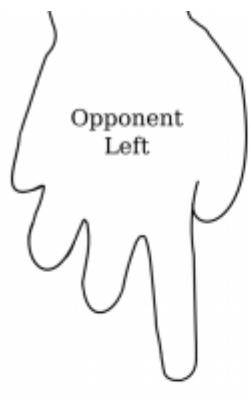
chopsticks_bad_agent_Languages.CNF_True_truthFalse

The computer says:

I add my right hand to my opponent's left hand when

- All of:
 - One or both of:
 - my left hand is not out
 - my left hand outs my opponent's left hand
 - Not both of:
 - my left hand is out
 - my right hand outs my opponent's left hand
 - One or both of:
 - my left hand is not out

- my left hand outs my opponent's right hand
- One or both of:
 - my left hand outs my opponent's left hand
 - my right hand is out
- One or both of:
 - my right hand does not out my opponent's left hand
 - my right hand is out
- One or both of:
 - my left hand outs my opponent's right hand
 - my right hand is out



You add your its right hand to your opponent's left hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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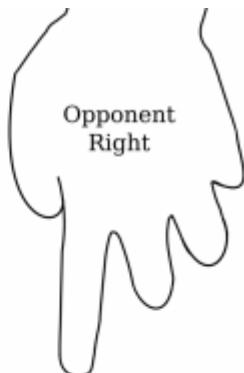
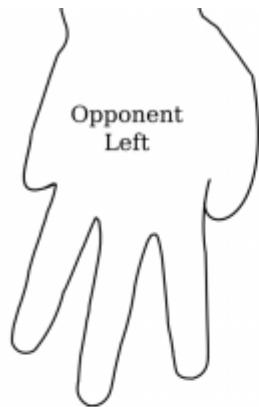
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chopsticks_bad_agent_Languages.dDNNF_False_truthFalse

The computer says:

I add my right hand to my opponent's right hand when

- Both of:
 - my right hand is out
 - One or both of:
 - Both of:
 - my left hand outs my opponent's right hand
 - my left hand does not out my opponent's left hand
 - Both of:
 - my left hand does not out my opponent's right hand
 - One or both of:
 - my left hand outs my opponent's left hand
 - All of:
 - my total is even
 - my left hand does not out my opponent's left hand
 - my left hand is not out



You add your right hand to your opponent's right hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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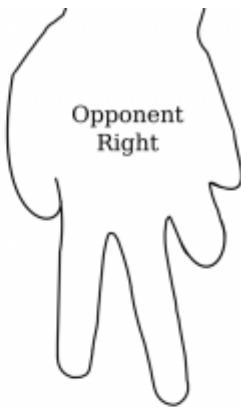
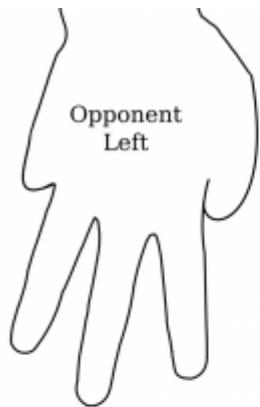
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chopsticks_bad_agent_Languages.DNF_False_truthFalse

The computer says:

I add my right hand to my opponent's left hand when

- One or both of:
 - Both of:
 - my left hand is not out
 - my right hand is out
 - All of:
 - my left hand outs my opponent's left hand
 - my right hand does not out my opponent's left hand
 - my left hand outs my opponent's right hand



You add your right hand to your opponent's left hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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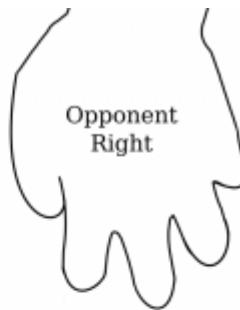
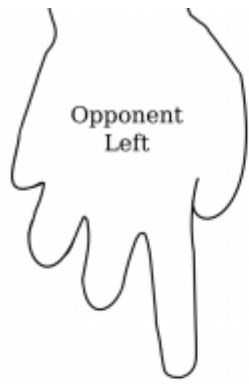
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chopsticks_bad_agent_Languages.ODNF_False_truthFalse

The computer says:

I add my left hand to my opponent's right hand when

- One or both of:
 - Both of:
 - my left hand outs my opponent's left hand
 - my left hand does not out my opponent's right hand
 - All of:
 - my left hand is out
 - my right hand is not out
 - my right hand does not out my opponent's left hand



You add your left hand to your opponent's right hand

- Yes
- No

How confident are you of your answer?

- Very confident
- Somewhat confident
- Neutral
- Somewhat unconfident
- Very unconfident

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NASA_tlx_chopsticks

The following questions pertain just to the last section.



Mental demand:
How mentally demanding was the task?

Physical demand:
How physically demanding was the task?

Temporal Demand:
How hurried or rushed was the pace of the task?

Performance: How successful were you in accomplishing what you were asked to do?

Effort: How hard did you have to work to accomplish your level of performance?

Frustration: How insecure, discouraged, irritated, stressed, and annoyed were you?

