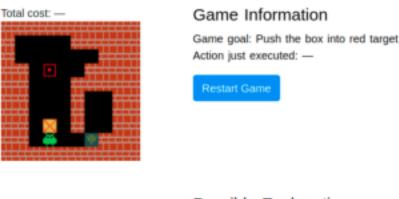
Instructions for the study

Please read the following instructions carefully

Through this survey, you will be asked to play a game and your task is to finish the game as soon as possible. You will have 3 minutes to finish the game. You can, however, restart the game as many times as needed within these 3 minutes. Each person is only eligible to take part in the study once. You are eligible for the base \$5 pay regardless of whether or not you finish the game. Top 5 people with the best time will each get \$5 bonus. In cases of ties for the top five slots, the total reward for \$25 will be split between everyone with the top five completion times.

Game Interface



Time Remaining: 2m 35s Possible Explanations:

Keys to execute actions:

Move up - 1

Move down - 1

Move left -
Move right -
Push up - w

Push down - s

Push left - a

Push right - d

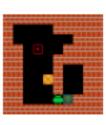
The goal of the game is to push the yellow box into the red square. The sokoban (the green character) has access to eight actions: Four move actions to move in the four direction and four actions to push the box in four directions. The image of the screen shows the eight buttons corresponding to each action. If for some reason the game fails because of some invalid move, you might have access to explanations to see why the move failed.

In the next page you will be shown a set of concepts relevant to the game. Please familiarize yourself with the concepts. You will be required to complete a quiz related to the concepts before starting the game

IMPORTANT: We are collecting this information as part of a research project. Please do not share any strategies or information about the study to any of the other participants. We will be checking your entries before reimbursing you for the study

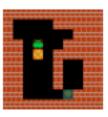
See Concept List

Concepts:



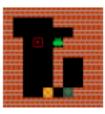
Butterfly box on right

The butterfly box is in the cell right of Sokoban (the little green character). The butterfly box has been marked on the image.



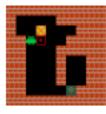
Box is below

The box is in the cell below Sokoban (the little green character)



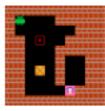
Empty left

The cell to the left of Sokoban (the little green character) is empty.



Target is on right

The red target is in the cell right to Sokoban (the little green character)



Butterfly box activated

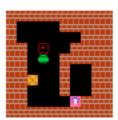
The butterfly box (on the bottom right of the image) is activated. The butterfly box when activated has a pink color.

Take a quiz on concepts

Quick test

Answer the following questions:

Question-1: Choose all the concepts that are true in the given image:



- Butterfly box activated
- Empty left
- Box is below
- Target is on right
- Butterfly box on right

Click to submit your answers



Game Information

Game goal: Push the box into red target

Action just executed: —

DO NOT REFRESH THE PAGE

Restart Game

Time Remaining:

Possible Explanations:

2m 53s

Keys to execute actions:

Move up - 1

Move down - II

Move left - -

Move right - -

Push up - w

Push down - s

Push left - a

Push right - d



Game Information

Game goal: Push the box into red target Action just executed: Push up

DO NOT REFRESH THE PAGE

Restart Game

Time Remaining:

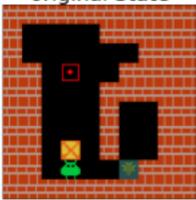
2m 27s

Possible Explanations:

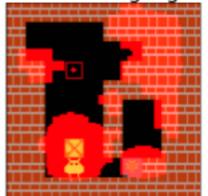
Here is a possible explanation for a failure in a similar state:

If you were using an ai system to play the game here are the parts (highlighted in orange) of the state it would look at

original State



State with Highlights



Keys to execute actions:

Move up - 1

Move down - II

Move left - -

Move right - -

Push up - w

Push down - s

Push left - a

Push right - d

Thank you for taking the study. You finished the game in 0 minutes and 52 seconds.

After the end of the study we will notify you if you are eligible for any additional bonuses

Did you see any explanations?: • Yes • No	
How helpful did you find the explanation?	
 Not at all Helpful Somewhat Unhelpful Neutral Somewhat Helpful Fully Helpful 	
What other information would be useful (if any):	
	10
Submit	

Background information

Please enter Age:		
Select gender	Do not specify	~
Select education	I have a under-graduate degree	~
Have you attended any Al classes?	○ Yes ○ No	
If you have attended any AI classes, are you aware of any Automated Planning techniques?	o Yes o No	
If you are aware of any automated planning techniques, then specify planning formalisms you are familiar with:		/.

Submit information and finish study