ICS 271A Fall 2020

Lecture A : Introduction to Artificial Intelligence (34750)

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Project notes : (classic) Sokoban

2020-10-15 : Input/Output format

input is a txt file, containing 5 lines defining the board :

sixeH sizeV, e.g. "3 5"

nWallSquares a list of coordinates of wall squares, e.g. "12 1 1 1 2 1 3 2 1 2 3 3 1 3 3 4 1 4 3 5 1 5 2 5 3"

nBoxes a list of coordinates of boxes, e.g. "1 3 2"

nStorageLocations a list of coordinates of storage locations, e.g. "1 4 2"

player's initial location x and y, e.g. "2 2"

output is a single line, beginning with nMoves followed by a sequence of letters (U,D,L,R) indicating direction of the move, e.g. "1 D".

There are several sample files :

1. Sokoban__.txt files are the problem spec files in the input format specified above
2. Input__.txt files are corresponding visual-representation files, intended to render the problem in human-friendly format