CENG 3511

Artificial Intelligence

Project 2: Solving CSPs

Deadline: Oct 28, 2019 11.59:59 pm

In this project, you are expected to solve the following puzzles using a CSP solver. Although <u>Google OR Tools</u> is highly recommended, you are free to use any CSP solver.

- <u>Kakuros</u>
- Futoshiki

Kakuros

Figure below illustrates a simple Kakuros puzzle, solution of the puzzle, input file and the output file.

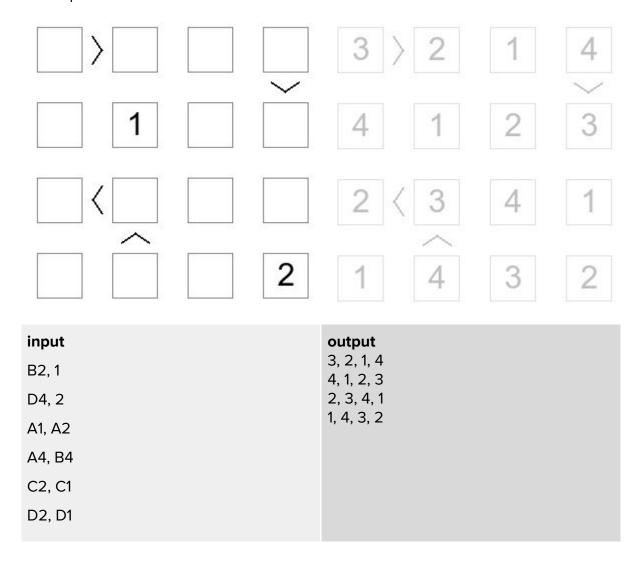
	22	18	7
20			
19			
8			

	22	18	7
20	9	7	4
19	8	9	2
8	5	2	1

input	output
22 40 7	x, 22, 18, 7
22, 18, 7	20, 9, 7, 4
20, 19, 8	19, 8, 9, 2
	8, 5, 2, 1

Futoshiki

Figure below illustrates a simple Futoshiki puzzle, solution of the puzzle, input file and the output file.



Submission

In this project you are going to deliver 2 source files and 2 input files. Your programs should generate output as text files:

- Source files: kakuros.py and futoshiki.py
- Input files: kakuro_input.txt and futoshiki_input.txt
- Output files: kakuro_output.txt and futoshiki_output.txt
- **README.txt:** Intructions for running the program.

You should commit these files under ceng3511/p2/ folder in your git account until deadline.

NOTE: Your project will not be graded if you don't follow the submission rules.