

Programing Assignment #4 - README

CSCE 625 - Artificial Intelligence
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1. The source code I turned in are named "JobPuzzle.java" and "HousePuzzle.java". Open a Command Prompt, enter the folder where the source codes are located. Compile with command "javac JobPuzzle.java". Then run with command "java JobPuzzle"(shown in Figure 1).

```
C:\Windows\System32>cd C:\Users\001\Desktop\AI_hw4
C:\Users\001\Desktop\AI_hw4>javac JobPuzzle.java
C:\Users\001\Desktop\AI_hw4>java JobPuzzle
```

Figure 1

2. Then you can choose use MRV or not(shown in Figure 2).

```
C:\Windows\System32>cd C:\Users\001\Desktop\AI_hw4
C:\Users\001\Desktop\AI_hw4>javac JobPuzzle.java
C:\Users\001\Desktop\AI_hw4>java JobPuzzle
Do you want to use MRV? Yes: y, No: n.y
Success.
With MRV, number of states explored: 8
Solution:
Roberta: nurse, clerk
Thelma: police officer, teacher
Steve: chef, boxer
Pete: guard, actor

C:\Users\001\Desktop\AI_hw4>java JobPuzzle
Do you want to use MRV? Yes: y, No: n.n
Success.
Without MRV, number of states explored: 12
Solution:
Roberta: teacher, actor
Thelma: chef, boxer
Steve: nurse, police officer
Pete: guard, clerk
```

Figure 2

3. The same with "HousePuzzle.java". (shown in Figure 3).

```
C:\Users\001\Desktop\AI_hw4>javac HousePuzzle.java
C:\Users\001\Desktop\AI_hw4>java HousePuzzle
Do you want to use MRV? Yes: y, No: n.y
Success.
With MRV, number of states explored: 1151
Solution:
first: yellow, Norwegian, Kit Kats, water, fox
second: blue, Ukranian, Hershey bars, tea, horse
third: red, Englishman, Smarties, milk, snails
fourth: ivory, Spaniard, Snickers, orange juice, dog
fifth: green, Japanese, Milky Ways, coffee, zebra

C:\Users\001\Desktop\AI_hw4>java HousePuzzle
Do you want to use MRV? Yes: y, No: n.n
Success.
Without MRV, number of states explored: 29926
Solution:
first: yellow, Norwegian, Kit Kats, water, fox
second: blue, Ukranian, Hershey bars, tea, horse
third: red, Englishman, Smarties, milk, snails
fourth: ivory, Spaniard, Snickers, orange juice, dog
fifth: green, Japanese, Milky Ways, coffee, zebra
```

Figure 3