

AI-hw6

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- 8.24 (a-k), 8.17
- 9.3, 9.4, 9.6, 9.13(a,b,c)

8.17 Explain what is wrong with the following proposed definition of adjacent squares in the wumpus world:

$$\forall x, y \quad \text{Adjacent}([x, y], [x + 1, y]) \wedge \text{Adjacent}([x, y], [x, y + 1]).$$

The proposed definition of adjacent squares in the wumpus world :

$\forall x, y \quad \text{Adjacent}([x, y], [x+1, y]) \wedge \text{Adjacent}([x, y], [x, y+1])$.

*is flawed due to several reasons : 1. **Logical Structure** : Using the conjunction operator (\$ \wedge\$*