

1. Formulate the problem precisely, making only those distinctions necessary to ensure a valid solution. Draw a diagram of the complete state space (without repeated states).
[4 points]
2. Implement and solve the problem optimally using an appropriate search algorithm.
[8 points]
3. Is it a good idea to check for repeated states?
[1 point]
4. Why do you think people (humans) have a hard time solving this puzzle, given that the state space is so simple?
[1 point]

References

- [Ama68] Saul Amarel. On representations and modeling in problem solving and on future directions for intelligent systems. Technical report, RCA LABS PRINCETON NJ, 1968.