# Problem #1

Given a max node, *i*, its bit values are:

**Max Root of the Tree:**

|  |
| --- |
|  |
|  |
|  |

**Min Level one of the Tree Root of the Tree:**

|  |
| --- |
|  |
|  |
|  |

# Problem #2

**Question:** Provide a schedule for a simulated annealing algorithm that could be used to solve the eight queens problem. Give an example of a situation where rather than going in the direction of a solution, the algorithm instead goes from a better state to a less fit one.