To solve the queen domination problem using a Pseudo Boolean Solver, we first need to format the encoded problem into a .opb file. The script in the code/ folder handles this task. For certain values of n, the generated files are stored in the formulas/ folder.

Below is a summary of the results, where `SAT` and `UNSAT` refer to the decision variant of the problem, and `Optimization` refers to the original form of the problem, treated as an optimization problem.

|  |  |  |  |
| --- | --- | --- | --- |
| n | RoundingSAT | | |
| SAT | UNSAT | Optimization |
| 10 | 0.2496 | 0.2796 | 3.2228 |
| 11 | 0.5363 | 0.2617 | 47.4102 |
| 12 | 25.0029 | 94.5055 | 3356.06 |
| 13 | 39.9468 | Time Out | Time Out |
| 14 | 574.4570 | Time Out | Time Out |
| 15 | 373.403 | Time Out | Time Out |