* For N=1 to 6 list solutions, N=7 to 20 returns only the number
* Record the time for N=1 to 20
* Predict the time to complete N=30
* Suggest way to prune the results

BFS:

|  |  |  |
| --- | --- | --- |
| **N** | **Solutions** | **Time to complete in seconds** |
| 1 | N/a | N/a |
| 2 | 0 | 0 |
| 3 | 0 | 0 |
| 4 | 2 | 0.0009 |
| 5 | 10 | 0.007 |
| 6 | 4 | 0.10 |
| 7 | 40 | 2.18 |
| 8 | 92 | 50.12 |
| 9 | N/a | N/a |