Q1 Backtracking:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **L** | **M** | **Output** | **Consistency Checks** | **Time Taken (seconds)** |
| 0 | 1 | 0, [0] | NA | 0.00000 |
| 1 | 2 | 1, [0, 1] | 1 | 0.00004 |
| 5 | 4 | Solution Doesn't Exist | 64 | 0.00008 |
| 6 | 4 | 6, [0, 1, 4, 6] | 88 | 0.00015 |
| 10 | 4 | 6, [0, 1, 4, 6] | 148 | 0.00020 |
| 11 | 5 | 11, [0, 1, 4, 9, 11] | 1914 | 0.00207 |
| 25 | 7 | 25, [0, 1, 4, 10, 18, 23, 25] | 905899 | 0.42013 |
| 27 | 7 | 25, [0, 1, 4, 10, 18, 23, 25] | 973375 | 0.45552 |
| 34 | 8 | 34, [0, 1, 4, 9, 15, 22, 32, 34] | 15835380 | 7.24934 |

Q2 Forward Checking:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **L** | **M** | **Output** | **Consistency Checks** | **Time Taken (seconds)** |
| 0 | 1 | 0, [0] | NA | 0.00000 |
| 1 | 2 | 1, [0, 1] | 1 | 0.00004 |
| 5 | 4 | Solution Doesn't Exist | 56 | 0.00013 |
| 6 | 4 | 6, [0, 1, 4, 6] | 114 | 0.00018 |
| 10 | 4 | 6, [0, 1, 4, 6] | 130 | 0.00020 |
| 11 | 5 | 11, [0, 1, 4, 9, 11] | 1630 | 0.80313 |
| 25 | 7 | 25, [0, 1, 4, 10, 18, 23, 25] | 780132 | 1.65936 |
| 27 | 7 | 25, [0, 1, 4, 10, 18, 23, 25] | 839911 | 5.03694 |
| 34 | 8 | 34, [0, 1, 4, 9, 15, 22, 32, 34] | 54480323 | 32.72267 |