**BIL 441 PROJECT 2**

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**1) a)** Variables: Q1, Q2, Q3, Q4

Domains: Di= {1, 2, 3, 4} ( the row)

Constraints: Qi ≠ Qj (cannot be in same row)

|Qi - Qj| ≠ |i - j| (or same diagonal)

**b)**

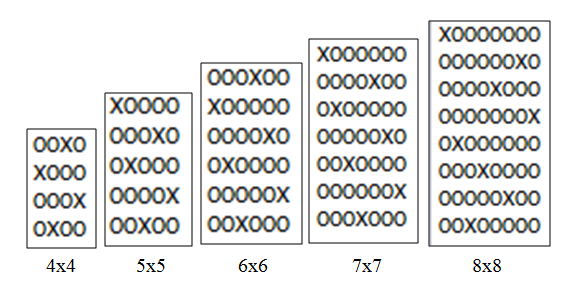
No option in third row to continue, backtrack

**c)** code in .rar

**d)**

|  |  |
| --- | --- |
| Size | Time |
| 4 | 0 |
| 5 | 0 |
| 6 | 1 |
| 7 | 1 |
| 8 | 2 |
| 9 | 1 |
| 10 | 2 |
| 11 | 2 |
| 12 | 2 |
| 13 | 2 |
| 14 | 4 |
| 15 | 4 |
| 16 | 10 |
| 17 | 5 |
| 18 | 24 |
| 19 | 3 |
| 20 | 101 |
| 21 | 6 |
| 22 | 854 |
| 23 | 15 |
| 24 | 218 |
| 25 | 29 |
| 26 | 234 |
| 27 | 275 |
| 28 | 1964 |
| 29 | 1081 |
| 30 | 39874 |
| 31 | 9665 |
| 32 | 68171 |
| 33 | 112363 |

**e)**

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