|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Book no,Problem no | No of total clues | No of horizontal sums | No of vertical sums | Max no of cells for horizontal sums | Max no of cells for vertical sums |
| **Sample\_problem** | **Sample\_book,prob 1** | 12 | 6 | 6 | 4 | 4 |
| **Problem\_1** | **Book\_1,prob** | 12 | 6 | 6 | 4 | 4 |
| **Problem\_2** | **Book\_1,prob** | 14 | 7 | 7 | 5 | 5 |
| **Problem\_3** | **Book\_2,prob** | 30 | 16 | 14 | 5 | 7 |

**TABLE-1**

**TABLE-2**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | For the first formulation | | | | | |
|  | Book no,Problem no | No of variables | No of constraints | No of nodes | No of backtrack | No of fail | Resolution time |
| **Sample\_problem** | **Sample\_book,prob 1** | 76 | 92 | 2 | 0 | 0 | 0.042s |
| **Problem\_1** | **Book\_1,prob** | 82 | 96 | 4 | 3 | 3 | 0.035s |
| **Problem\_2** | **Book\_1,prob** | 89 | 105 | 6 | 1 | 1 | 0.046s |
| **Problem\_3** | **Book\_2,prob** | 177 | 221 | 3 | 1 | 1 | 0.052s |

**TABLE-3**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | For the Second formulation | | | | | |
|  | Book no,Problem no | No of variables | No of constraints | No of nodes | No of backtrack | No of fail | Resolution time |
| **Sample\_problem** | **Sample\_book,prob 1** | 76 | 120 | 2 | 0 | 0 | 0.039s |
| **Problem\_1** | **Book\_1,prob** | 82 | 115 | 2 | 0 | 0 | 0.058s |
| **Problem\_2** | **Book\_1,prob** | 89 | 134 | 5 | 0 | 0 | 0.042s |
| **Problem\_3** | **Book\_2,prob** | 177 | 275 | 3 | 1 | 1 | 0.051s |