Fill in the grid so that every row, every column, and every $3 \times 3$ box contains the digits 1 through 9 .

| 2 |  | 6 |  |  |  |  | 4 | 9 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | 3 | 7 |  |  | 9 |  |  |  |
| 1 |  |  | 7 |  |  |  |  | 6 |
|  |  |  | 5 | 8 |  | 9 |  |  |
| 7 |  | 5 |  |  |  | 8 |  | 4 |
|  |  | 9 |  | 6 | 2 |  |  |  |
| 9 |  |  |  |  | 4 |  |  | 1 |
|  |  |  | 3 |  |  | 4 | 9 |  |
| 4 | 1 |  |  |  |  | 2 |  | 8 |

