Testing:

Initial test:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Feature | Test | Expected outcome | Actual outcome | Fix |
| Each number appears only once per cell | Run Practice game | Number appears only once per box | Duplication of numbers in every box | When generating box values, create an array in test box (testBox) with each new value.  Use While with array search method to check if a value appears in the box, then regenerate until a unique value is generated (Search methods selected from https://www.digitalocean.com/community/tutorials/js-array-search-methods) |

Test after applying fix:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Feature | Test | Expected outcome | Actual outcome | Conclusion / Other issues identified |
| Each number appears only once per cell | Run Practice game, check each box for duplication | Number appears only once per box |  | Each box generates every number only once.  Other known issues:   * Numbers duplicate across rows * Number duplicate across columns   Features outstanding:   * Hide some values for player to “guess” * Timer for completion * Challenge game, generates once per 24 hours |