We must check 1905 columns and 3x3 sub-bosses for duplecates among filled cells; the opproaches hash sets for Validation.

[]Ley Idea: [

Use 3 arrays of hash sets (or botten arrays):

- 1 Novos(3) track digets in each Now.
- 1. cls[9] track digits in each column
- 3. Voxes (97 track oligits in each 3X3 sub-lox.

For each cell (i,f):

- · This if cell is!
- Compute box Index = (i/3) & 3+ (j/3) for the 3x3 box
- Otherwise, edd digit to respective sets.

[Complexity:

· Trine: O(81) - constant rince board is fixed 9 x 9.

· Spece: O(81) for storing sets.