Valid	Iudoku

We must check 1901 columns and 3x3 sub-bosses for duplicates among filled cells; the opproaches hash sets for Validation.

TLey Idea: [

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

1 Novos(3) - track digets in each Now.

1. cols[9] - track digits in each column

3. boxes (97 - track digits in each 3x3 sub-lox.

For each cell (i,j):

· This if cell is!

Compute box Index = (i/3) & 3+ (j/3) for the 3x3 box

Otherwise, add digit to respective sets.

Complexity:

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

· Spece: O(81) for storing sets.