

fancy = 2,768,999

a = 1<sup>st</sup> column

aa = 27<sup>th</sup> column

zz = 52<sup>nd</sup> column

f	a	n	c	y
6	1	14	3	25

$$(26^0 \cdot 6) + (26^1 \cdot 1) + (26^2 \cdot 14) + (26^3 \cdot 3) + (26^4 \cdot 25)$$

$$\begin{matrix} a & a \\ (26^0 \cdot 1) + (26^1 \cdot 1) = (1 \cdot 1) + (26 \cdot 1) = 27 \end{matrix}$$

if you substring into 2 parts it will be difficult to track which columns go to which rows. Also many looping required

a1 b4 c6 h8 boardsize = 8

$$a \cdot 1 = 1 \quad c \cdot 6 = 18 \quad d \cdot 4 = 16$$

$$b \cdot 4 = 8 \quad h \cdot 8 = 64$$

column check = iterate if any letters are  
same then return false

\* Only need to check next with current  
 $list.length - 1;$

$$a \cdot 2 = 2 \quad \text{vs} \quad d \cdot 5 = 20$$

multiply X NO

8	8	16	24	32	40	48	56	64
7	7	14	21	28	35	42	49	56
6	6	12	18	24	30	36	42	48
5	5	10	15	20	25	30	35	40
4	4	8	12	16	20	24	28	32
3	3	6	9	12	15	18	21	24
2	2	4	6	8	10	12	14	16
1	1	2	3	4	5	6	7	8
	A	B	C	D	E	F	G	H



Add

An 8x8 chessboard with a light wood grain and dark squares. Red numbers are written in the squares, following a snake-like pattern. The numbers 1 through 16 are placed in the first row (rank 8) from left to right. The numbers 15 through 8 are placed in the second row (rank 7) from right to left. This pattern continues for all eight rows. The columns are labeled A through H at the bottom, and the ranks are labeled 1 through 8 on the left side.

	A	B	C	D	E	F	G	H
8	9	10	11	12	13	14	15	16
7	8	9	10	11	12	13	14	15
6	7	8	9	10	11	12	13	14
5	6	7	8	9	10	11	12	13
4	5	6	7	8	9	10	11	12
3	4	5	6	7	8	9	10	11
2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9



I can loop through to get values  
and add to hash map

- maybe 2 map's so that

- 3 hashmaps 1 for rows, 1 columns,  
1 for diagonals (possibly need 2 for  
diagonals)

Subtract

8	-7	-6	-5	-4	-3	-2	-1	0
7	-6	-5	-4	-3	-2	-1	0	1
6	-5	-4	-3	-2	-1	0	1	2
5	-4	-3	-2	-1	0	1	2	3
4	-3	-2	-1	0	1	2	3	4
3	-2	-1	0	1	2	3	4	5
2	-1	0	1	2	3	4	5	6
1	0	1	2	3	4	5	6	7
	A	B	C	D	E	F	G	H

