Board representation 0x88

Friday, July 8, 2022 1:01 PM

7, 0	7, 1			7, 7
1, 0				
1, 0 0, 0	0, 1			0, 7

- (0, 0) = 0-000-0-000
- (1, 0) = 0-001-0-000
- (0, 1) = 0-000-0-001
- (0, 7) = 0-000-0-111
- (7, 0) = 0-111-0-000
- (7, 7) = 0-111-0-111

Move a piece up one row:

- (1, 0) -> (0, 0)
 - o 001-000 -> 000-000
- (6, 3) -> (5, 3)
 - o 110-011 -> 101-011
- (0, 0) -> (-7, 0)
 - o With six bits: 000-000 -> 001-000
 - o With eight bits: 0-000-0-000 -> 1-001-0-000

x	0	1	2	3	4	5	6	7
7	112	113	114	115	116	117	118	119
6	۵ĸ	۵7	۵Q	۵۵	100	101	102	102

U	70	J /	ا ا	رر	100	101	102	102
5	80	81	82	83	84	85	86	87
4	64	65	66	67	68	69	70	71
3	48	49	50	51	52	53	54	55
2	32	33	34	35	36	37	38	39
1	16	17	18	19	20	21	22	23
0	0	1	2	3	4	5	6	7

If number >= 128 then row is off board
If number % 16 is >= 8 then file is off board

Each team has:

- 8 pawns
- 2 rooks
- 2 knights
- 2 bishops
- 1 queen
- 1 king

32 + 32^2

0-7: white pawns 8-9: white rooks

10-11: white knights

12-13: white bishops 14: white queen

15: white king

+16 for black pieces

R-space

В

Ν

Q

Κ

'raa1'

1.....41