8 Queen

$S_1 = \langle 75 \ 14 \ 8623 \rangle$

$S_2 = \langle 74 \ 812563 \rangle$

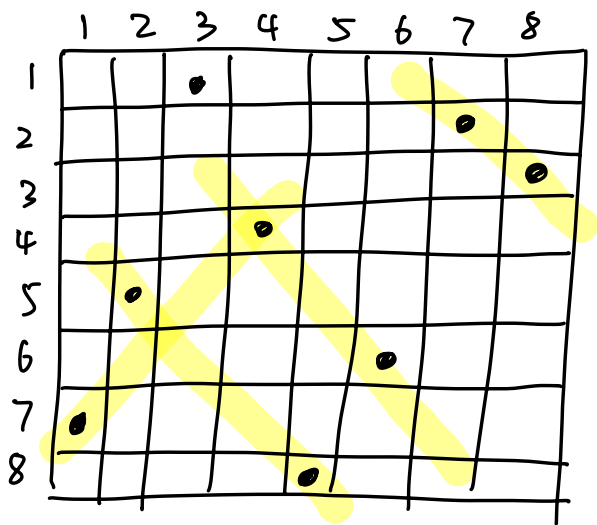$S_3 = \langle 38571246 \rangle$

$S_4 = \langle 17 \ 4 \ 8 \ 25 \ 63 \rangle$
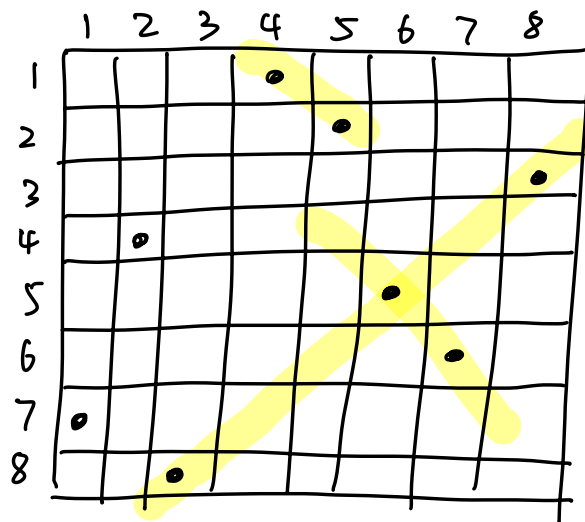
fitness Rank ?
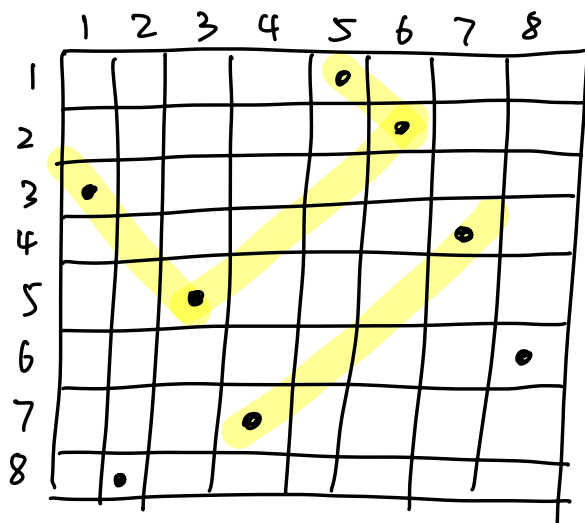
min – point cut & cross ?

Solution ① fitness 4

fit: 5

$S_1 = \langle 7\ 5\ 1\ 4\ 8\ 6\ 2\ 3\rangle$

$S_2 = \langle 7\ 4\ 8\ 1\ 2\ 5\ 6\ 3\rangle$

$S_3 = \langle 3\ 8\ 5\ 7\ 1\ 2\ 4\ 6\rangle$

fit: 4
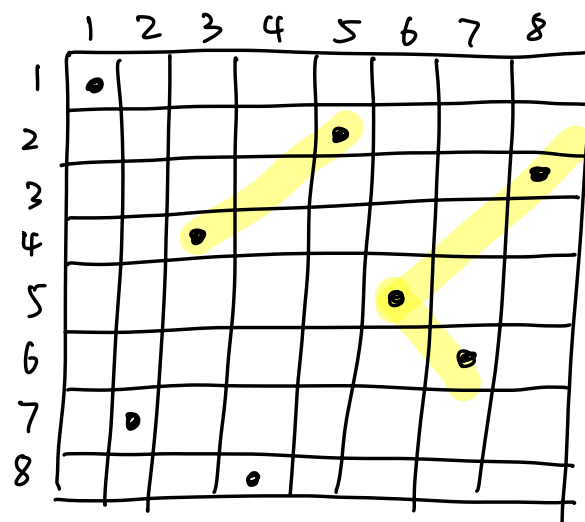
$S_4 = \langle 1\ 7\ 4\ 8\ 2\ 5\ 6\ 3\rangle$

fit: 3

② S4 (best)   S1   S3   S2 (worst)

④ $\langle 1\ 7\ 4\ 8\ 2\ 5\ 6\ 3 \rangle$

$\langle 7\ 4\ 8\ 1\ 2\ 5\ 6\ 3 \rangle$

$\langle 1\ 7\ 4\ 8\ \underline{2\ 5}\ \underline{6\ 3} \rangle$ $\langle 1\ 7\ 4\ 8\ 2\ 5\ 6\ 3 \rangle$

$\langle 7\ 4\ 8\ 1\ 2\ 5\ 6\ 3 \rangle$ $\langle 7\ 4\ 8\ 1\ \underline{2\ 5}\ \underline{6\ 3} \rangle$