tollowing an the four charomosomes each number represent number position and now count start from how many green pairs voteck. We can turn it into manintzation problem by using end I is number of queen gains of Ahren ween that attack ear

(1) massimum Johnes valeu until N°-1 = (5)2 - 0 Les mens no queen pair 13 attacking. Dopulation; fitner = 10.5 PU 2 1 3 2 54 Fitness = 11.5 P(2) = 3 5 1 2 4 Fitness = 10.5 1312411542 P(4) = 3 1 2 5 4 Fitness = 10,5 Selection: P(1) = 10.5 43 0/2/2 11.5 P(312 10.5 PH12 10.5 2

Modification; generale random number 2 2 cross over point 22 PU) 1 3 2:54 (1) 2 1 3 2 2 4 10) 3 5 1 12 4 0(2)235154 Pb): 3 5 1: 3 4 BB1235142 P(3): 4 1 5: h 2 Mutation: with 0.01 Evaluation: 5 3 2 erob only mutate av. 2 4 C(1)2 5 3 2 2 4 Atnes 2 10,5 Cl2) 2 3 5 1 5 4 f. 7 ness 2 10.5 ((3) 2 3 5 1 4 2 fitnes = 12.5 C(4) 2 4 1 5 2 4 Fitners 12,5