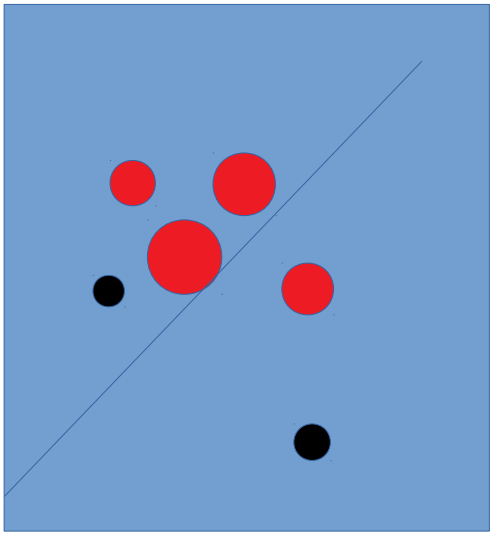

1) [Basis Step] n = 1 (red color horse)
2) [Induction Hypothesis] n = k
3) [Induction Step] n = k +1

P(no), P(no+1), ....., P(k) => P(k+1)
P(n) is true for all n >= no.

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P(no), P(no+1).....P(k), P(k+1) => P(k+2)

p = even permutation on S = (1 2 4 5 6) = (1 6) (1 5) (1 4) ( 1 2)
qo.p =  qo. (1 6) (1 5) (1 4) ( 1 2) = odd permutation

(1 6) (1 2) (1 5)....

n >=2
n!/2 -> even permutations
n!/2

I = (a1) (a2).... (an)

Given sequence: 45, 25, 39, 16, 11, 7, 120, 63, 94, 56

ak = 25
i.s.s of 25= {25, 39, 63, 94}
xk = 4
d.s.s of 25 = {25, 16, 11, 7}
yk = 4

ai = 25, aj = 11  (ai > aj)
xi = 4
yi = 4

xj = 3
yj= 2

yi > yj

ai < aj: