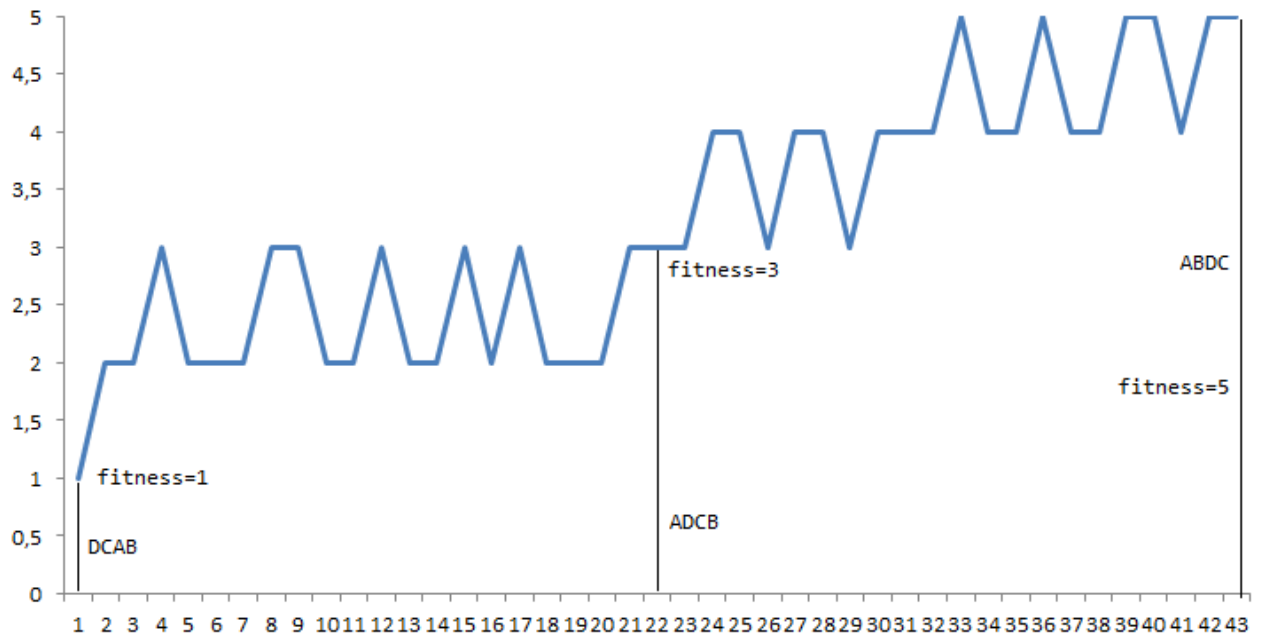


Alexander Ignatyuk

Sorting Network

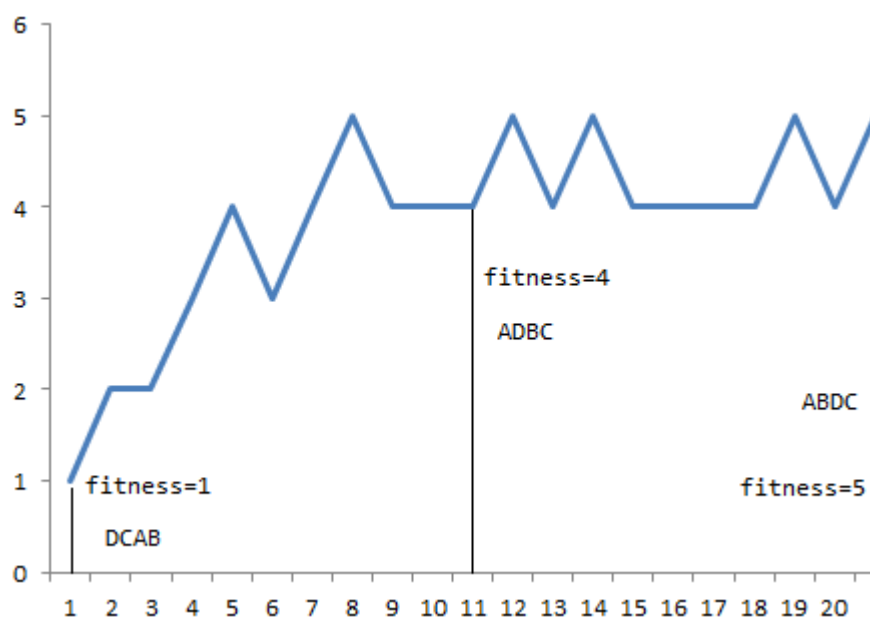
Scenario 1.

Sorting chromosomes – 30(24 bits in each chromosome); target – ABCD; 30 chromosomes in population.



Scenario 2.

Sorting chromosomes – 30(12 bits in mama and 12 bits in papa); target – ABCD; 30 chromosomes in population.



First generation: mother's chromosome – 101100|110101; father's chromosome – 101101|011011; child – 101100011011.

Intermediate generation: mother's chromosome – 101000|110101; father's chromosome – 101100|111001; child – 101000111001.

Last generation: mother's chromosome – 101100|100101; father's chromosome – 101100|110101; child – 101100100101.