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Start parameters:

Population size	10
Chromosome size	10
Epoch	10
Mutation	5%
Crossover	One point crossover
Selection	Truncate

Test cases:

Case 1:

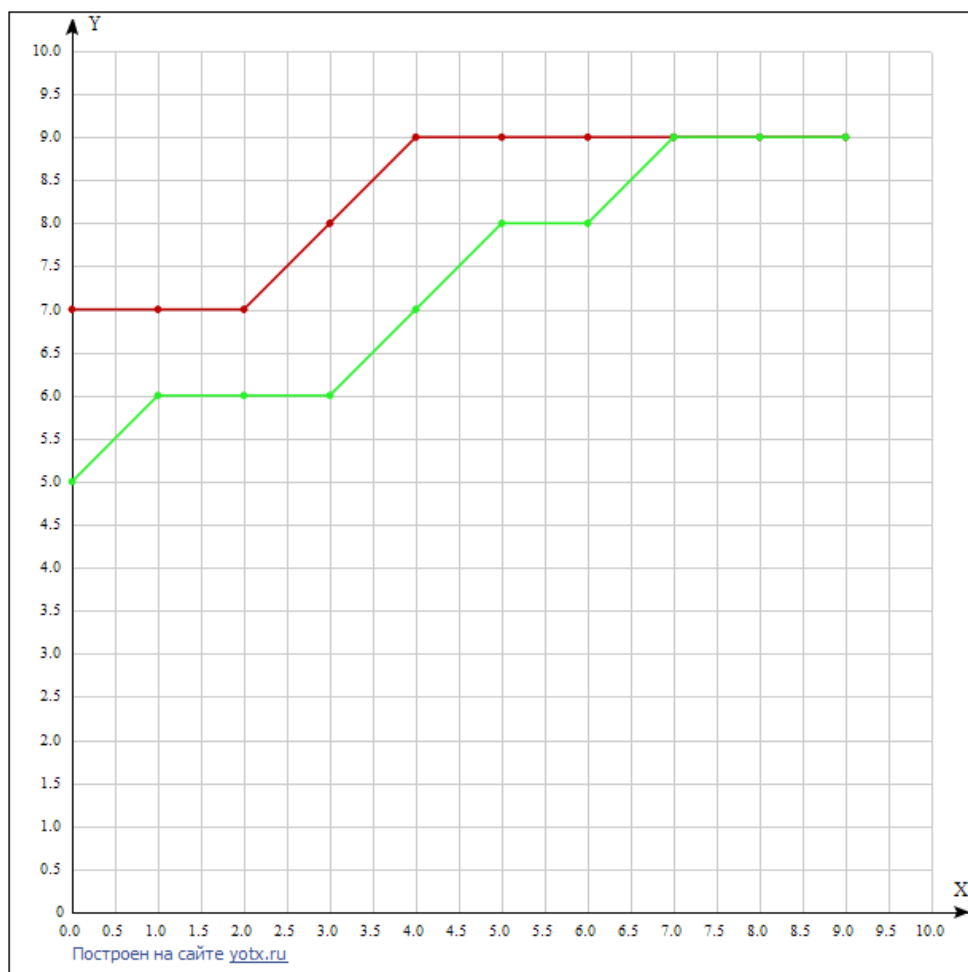
Population consist of 1 or 0 values with 50 %

Red line is best result from population

Green line is average result from population

(0;7) (1;7) (2;7) (3;8) (4;9) (5;9) (6;9) (7;9) (8;9) (9;9)

(0;5) (1;6) (2;6) (3;6) (4;7) (5;8) (6;8) (7;9) (8;9) (9;9)



In this case I reach 90% of 1 values on fourth generation. It's fast but not good enough.

Case 2:

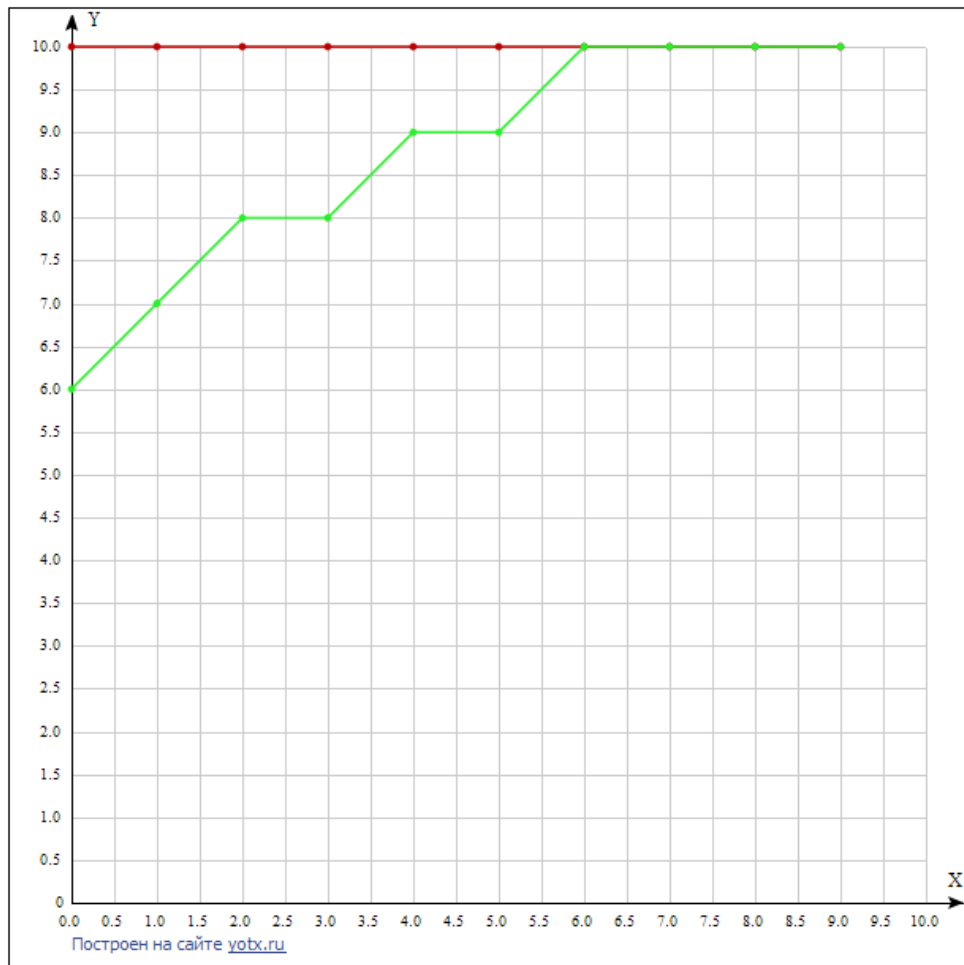
Population consist of 1 or 0 values with 90% for 1 and 10% for 0

Red line is best result from population

Green line is average result from population

(0;10) (1;10) (2;10) (3;10) (4;10) (5;10) (6;10) (7;10) (8;10) (9;10)

(0;9) (1;9) (2;10) (3;10) (4;10) (5;10) (6;10) (7;10) (8;10) (9;10)



In this case I reach 100% of 1 values on first generation. It's fast.

Conclusion:

When I worked with 50% I can good result. I got 90% of 1 values on fourth generation.

When I used 90% of 1, I got very goo results on first generation 100%.

So speed and final result depends on first generation.