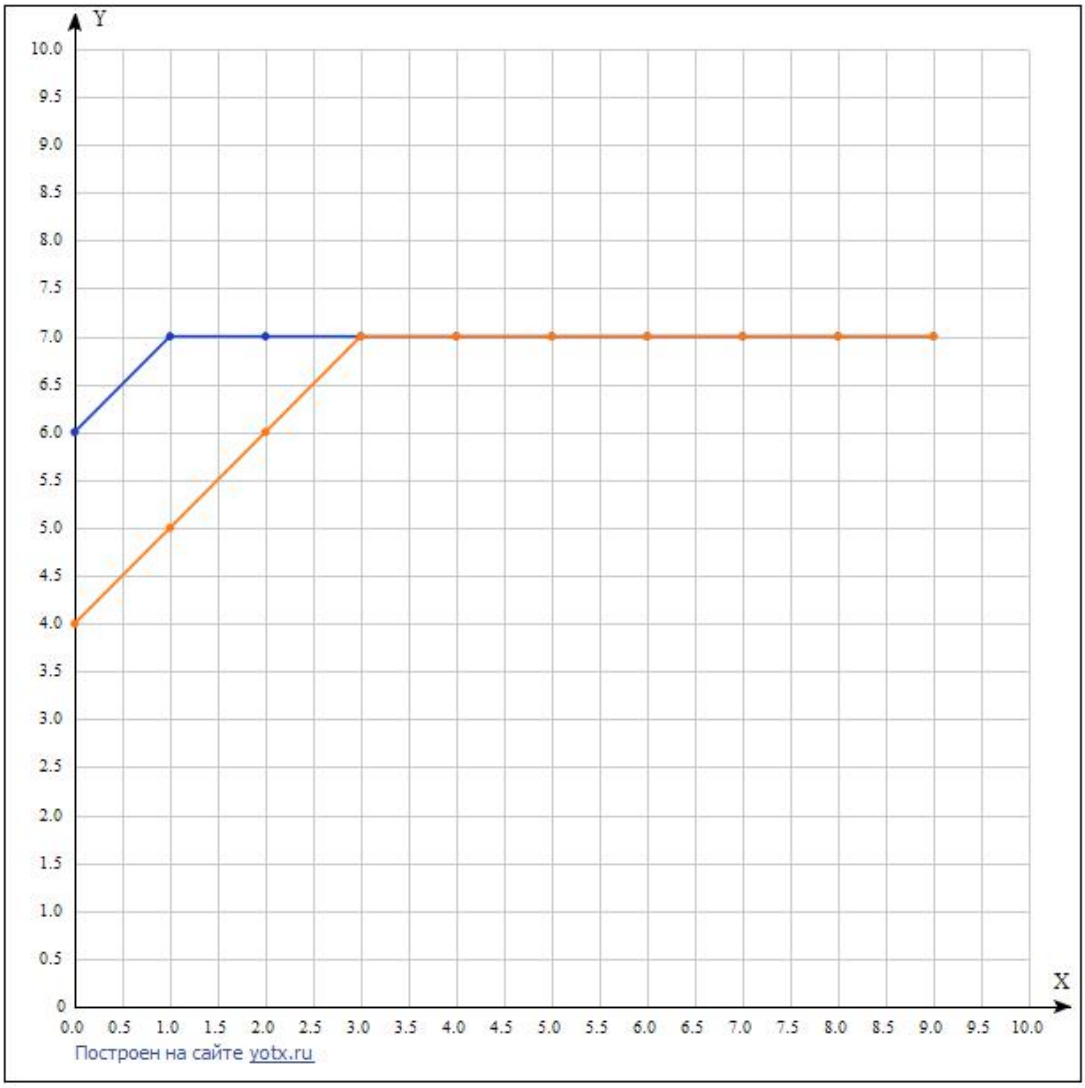
Name: Vadim Parafenuk (Вадим Парафенюк)

Size of chromosome: 10
Capacity of population: 10
Epoch (generations): 10
No mutation
Onepoint crossover
Truncate selection

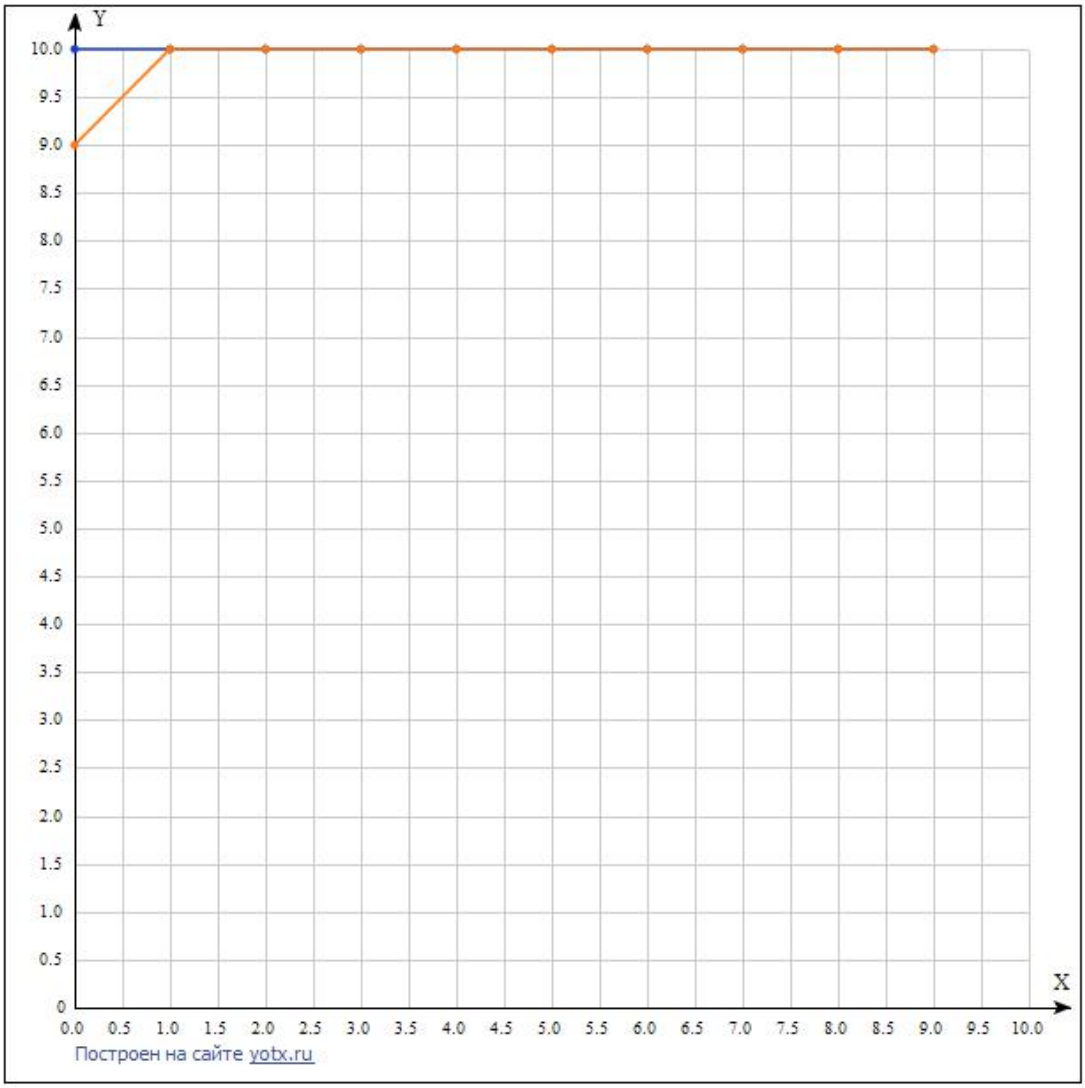
First experiment: 50% of ones and 50% of zeros



Blue line - best (largest number of ones)
Red line - average (per population)

As i can see, in this situation population can’t achieve good result (at least one chromosome witch consist of only ones)

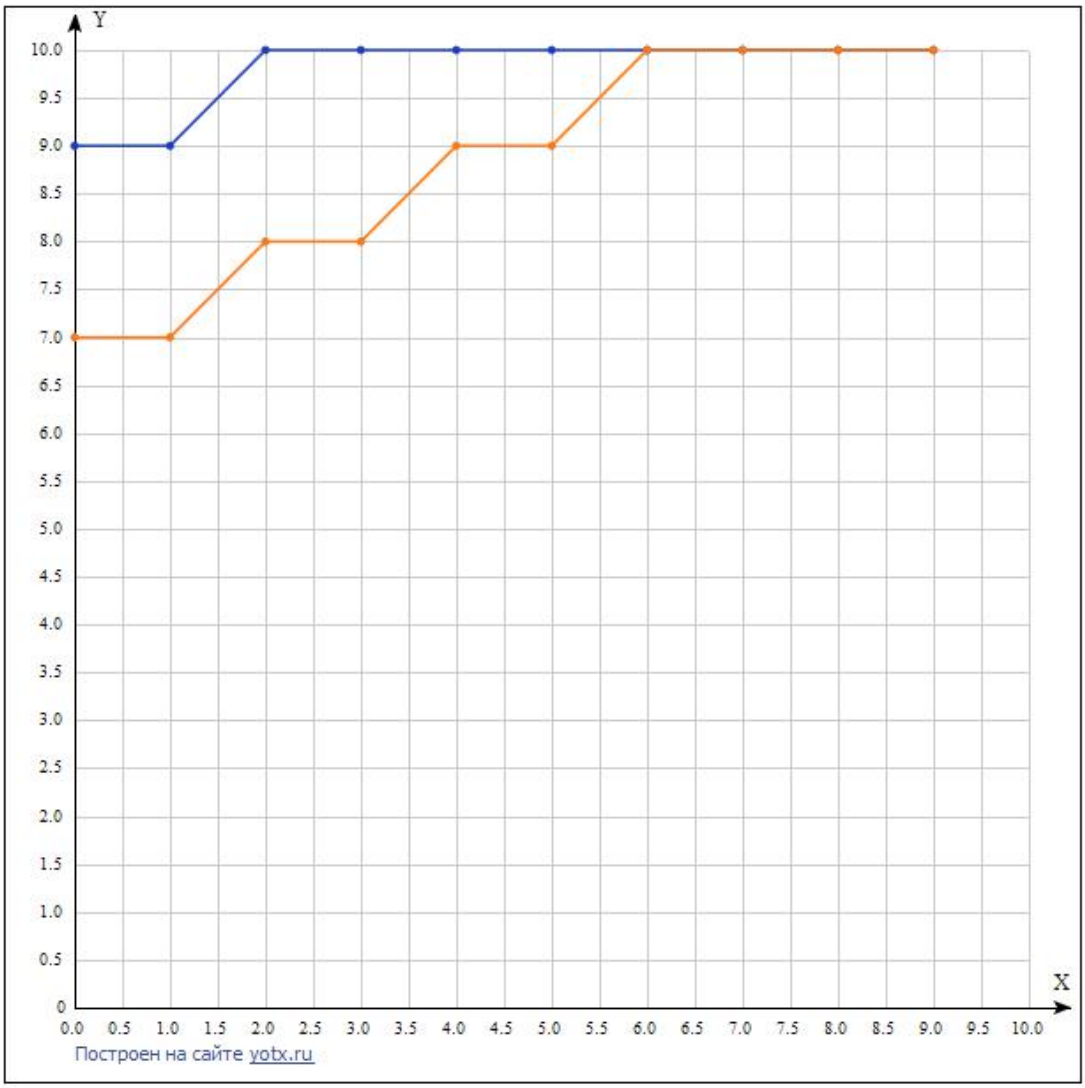
Second experiment: 90% of ones and 10% of zeros



Blue line - best (largest number of ones)
Red line - average (per population)

As i can see, in this situation population achieve best result and it do it very fast.

Third experiment: 75% of ones and 25% of zeros



In this situation population evaluate smoothly and achieve best result.

Conclusion: if i pick 50% of ones and 50% of zeros, pupulation will not achieve good result. 90% of ones and 10% of zeros allow population to achieve good result quickly. And 75% of ones and 25% of zeros lead to achieve good result smoothly.