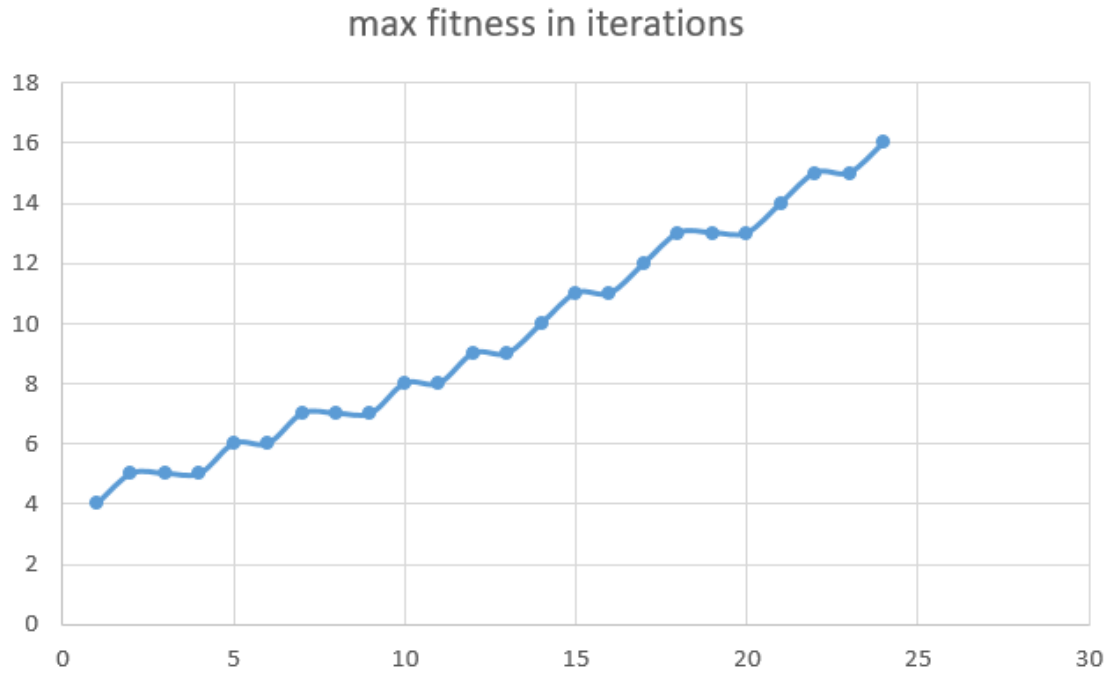
Andreychuk Dmitry 10/15/2018

Size of population – 20
Size of chromosome – 20
Mutation percent – 0.01
Multi-point crossover with 2 crossover random point
Truncate selection mode

Best fitness of generation graphic:



First generation table:

Table				Y	Y res	Fitness
-1	-1	-1	-1	1	1	**4**
-1	-1	-1	1	**-1**	**-1**	
-1	-1	1	-1	-1	1	
-1	-1	1	1	1	-1	
-1	1	-1	-1	**-1**	**-1**	
-1	1	-1	1	1	-1	
-1	1	1	-1	1	-1	
-1	1	1	1	-1	1	
1	-1	-1	-1	-1	1	
1	-1	-1	1	**1**	**1**	
1	-1	1	-1	1	-1	
1	-1	1	1	**-1**	**-1**	
1	1	-1	-1	1	-1	
1	1	-1	1	-1	1	
1	1	1	-1	-1	1	
1	1	1	1	1	-1	

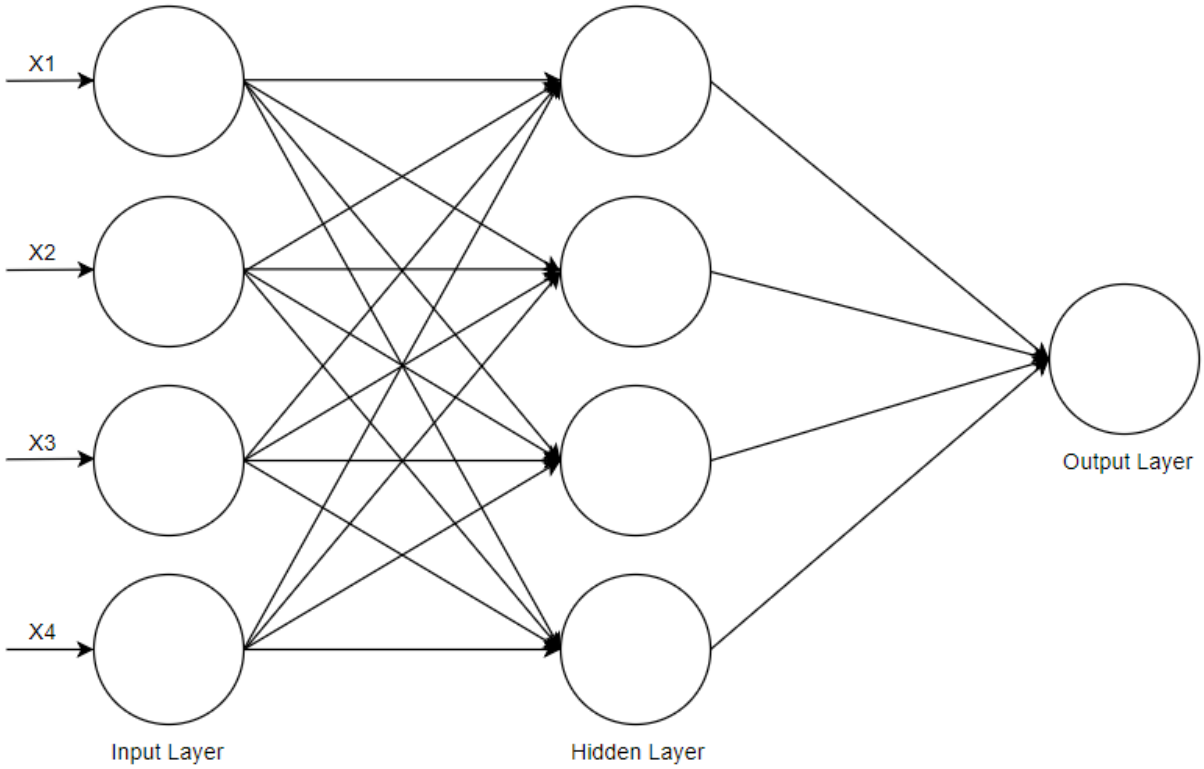
Middle () generation table:

Table				Y	Y res	Fitness
-1	-1	-1	-1	**1**	**1**	**9**
-1	-1	-1	1	**-1**	**-1**	
-1	-1	1	-1	-1	-1	
-1	-1	1	1	**1**	**1**	
-1	1	-1	-1	**-1**	**-1**	
-1	1	-1	1	1	1	
-1	1	1	-1	**1**	**1**	
-1	1	1	1	-1	-1	
1	-1	-1	-1	**-1**	**-1**	
1	-1	-1	1	**1**	**1**	
1	-1	1	-1	1	1	
1	-1	1	1	-1	-1	
1	1	-1	-1	1	1	
1	1	-1	1	-1	-1	
1	1	1	-1	**-1**	**-1**	
1	1	1	1	**1**	**1**	

Last generation table:

Table				Y	Y res	Fitness
-1	-1	-1	-1	**1**	**1**	
-1	-1	-1	1	**-1**	**-1**	
-1	-1	1	-1	**-1**	**-1**	
-1	-1	1	1	**1**	**1**	
-1	1	-1	-1	**-1**	**-1**	
-1	1	-1	1	**1**	**1**	
-1	1	1	-1	**1**	**1**	
-1	1	1	1	**-1**	**-1**	
1	-1	-1	-1	**-1**	**-1**	
1	-1	-1	1	**1**	**1**	
1	-1	1	-1	**1**	**1**	
1	-1	1	1	**-1**	**-1**	
1	1	-1	-1	**1**	**1**	
1	1	-1	1	**-1**	**-1**	
1	1	1	-1	**-1**	**-1**	
1	1	1	1	**1**	**1**	**16**

Neural network scheme:



Conclusion : Algorithm achieved 100% accuracy (in my case). All cases, was matched by our NN (4-4-1). So, we can say that GA is aplicapable for training NN.