Practice 11.05.2018
Dmitry Savashchuk
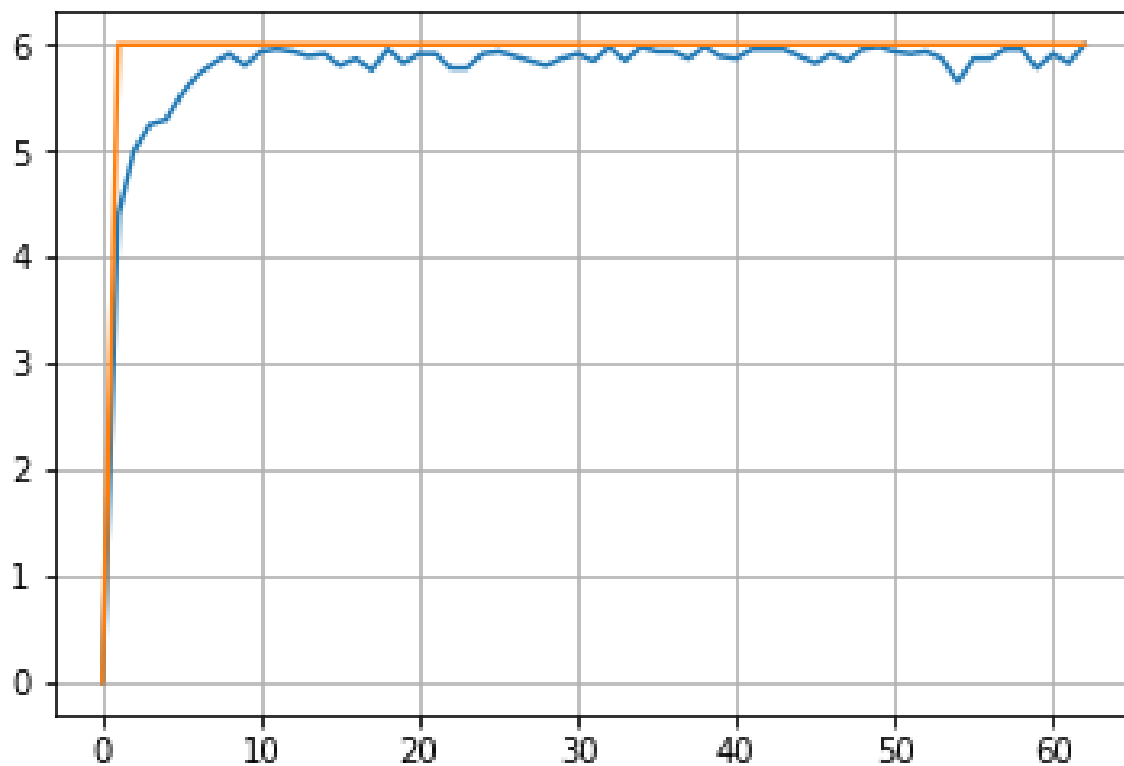

Base information of scenario:
Base word: "dacb".
30 chromosomes, 12 gens each.
each gen – 0, 1, 2 or 3 – index of char in word.
Graph of max fitness and average fitness:

Orange line – max fitness,
Blue line – average fitness.



Best chromosomes on start, intermediate and final iterations:
Start:
[0, 1, 0, 1, 1, 2, 2, 0, 2, 3, 0, 1] – "adbc" – fitness: 4.
Intermediate:
[0, 1, 0, 1, 1, 3, 0, 3, 1, 2, 2, 2] – "abcd" – fitness: 6.
Final:
[0, 1, 0, 1, 1, 2, 2, 0, 2, 3, 3, 1] – "abcd" – fitness: 6.
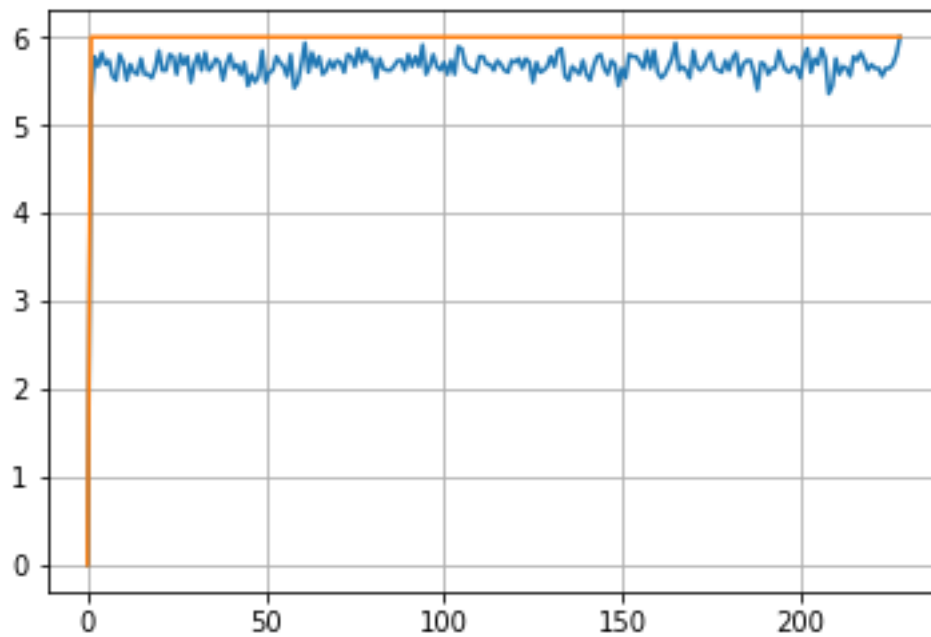
Base information of scenario:
Base word: "cbad".
60 chromosomes, 6 gens each.
each gen – 0, 1, 2 or 3 – index of char in word.
Graph of max fitness and average fitness:

Orange line – max fitness,
Blue line – average fitness.



Best pairs of chromosomes on start iteration, intermediate iteration and final iteration:
Start:
first parent:     [1, 3, 1, 0, 0, 1]
second parent: [1, 2, 1, 1, 2, 2]
word – " abcd" – fitness: 6
Intermediate:
first parent:     [0, 3, 1, 2, 3 ,2]
second parent: [1, 3, 3, 1, 2, 1]
word- 'abcd' – fitness: 6
Final:
first parent:     [0, 3, 0, 1, 3 ,2]
second parent: [1, 3, 2, 3, 2, 1]
Word – "abcd" – fitness: 6