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Gabor P 3

Size of the problem (n): 52  
the fitness: 0  
generations: 887  
Length of time it took your program to find the solution: 36.992s

[20, 17, 41, 50, 31, 24, 51, 25, 23, 14,

44, 4, 26, 36, 49, 9, 48, 13, 30, 27,

5, 38, 47, 22, 15, 11, 8, 33, 16, 32,

3, 10, 43, 40, 34, 39, 46, 0, 28, 1,

7, 42, 37, 19, 12, 6, 35, 18, 45, 21,

2, 29]

3.  At explanation of your genetic algorithm's parameters and its basic structure.  
What is your population size? Max population size is 150

How many children do you breed at a pass (is it 1, as in class, or some other scheme)?

Two children for each set of two parents

How do you select the parents to breed?

Shuffle and pair them up

How do you select the pivot point (for the gene splicing)?

Half the time it’s the middle, 1/5 it is the upper quartile, 1/5 it is the lower quartile, and the rest of the time it is a random element

How do you decide when to mutate?

When the child is already in the population or 1/3 of the time

What is your mutation?

Either reverse between two random ints, switch two random ints, or insert a possibility somewhere

What happens if a child is produced that is identical to an already existing population member?

It is mutated until it is unique

What happens if the two parents selected have the same genes?

Nothing special

(If relevant) What is your derived fitness function and how are you using it?

Not relevant