ASSIGNMENT 3 REPORT

İBRAHİM KOZ

Firstly, I've been sticked an experimental procedure through making the assignment. I've learnt generics and how to implement them. I've built my linked list with generics, to make it clear I've used the same linked list structure upon both Gene linked list and Chromosome linked list. Also, I've taken advantages of function pointers. I've used best capable sort algorithm Merge Sort to sort chromosomes, and while I was implementing it, I've sent a function pointer which denotes criteria how dataset should be sorted or which according to attributes to merge sort, then it handles problem respect to function pointer.

Gene structure: has 3 members; var, digit, fitness.

Chromosome structure: has 3 members; first gene that is first node of gene chain, last gene, total_fitness, rank.

Population structure: has 3 members; first chromosome thas is first node of chromosome chain, generation, best chromosome.

I operate those operations subsequently until the program halts: xover_chromosomes, mutate_population, order_population, printf_population in some While loop.