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C.

Problem Solving using Genetic Algorithms

Maximize  $f(n) = n^{-1}$ ; where x is permitted to vary between o and 31

stepo: Select initial population at random Expected netual pselict × value Initial string Number f(x) count Population (Roulette Wheel) (VV) = x2 01101 13 169 1 1  $1.97 = \frac{576}{293}$ 576 11000 24 2 2 64 01000 8 3 1.23 = 311 361 19 10011 4 sum = 1170 Avg = 173 Max = 576