## (1) Simulated Annealing:

## A. OneMax Problem

參數 ./main 100 30 1000 0.5

100 bits

30 run

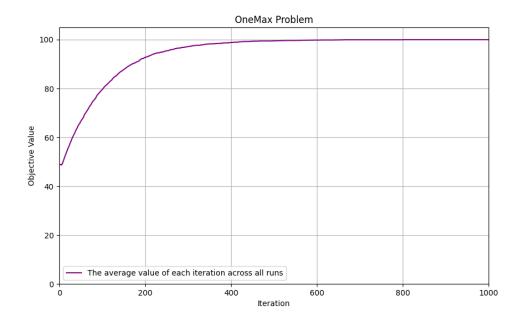
1000 iterations

 $\alpha$  = 0.5

T = 100 (initial)

allen@DESKTOP-TKIN1M5:/mnt/c/Users/User/Desktop/Lab/Week2/Simulated Annealing\$ ./main 100 30 1000 0.5 OneMax





## **B.** Deception Problem

參數 ./main 100 30 1000 0.5

16 bits,最大值經手算為 49151 沒錯

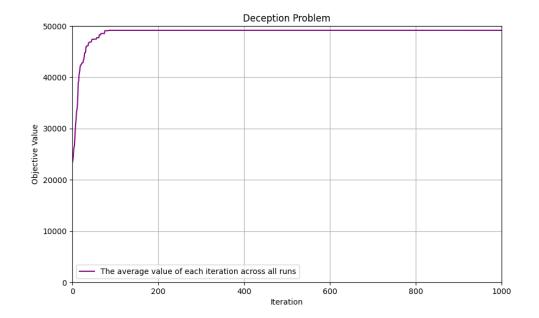
30 run

1000 iterations

 $\alpha$  = 0.5

T = 100 (initial)

allen@DESKTOP-TKIN1M5:/mmt/c/Users/User/Desktop/Lab/Week2/Simulated Annealing\$ ./main 16 30 1000 0.5 Deception



## (2) Genetic Algorithm:

參數 ./main 100 30 1000 0.5

30 bits

30 run

20000 evaluation

3 population

0.6 crossover rate

0.1 mutation rate



