```
PopulationSize            = 300
NumberOfGenerations       = 20
CrossoverProbability      = 100
CreationProbability       = 0
CreationType              = Ramped Half and Half
MaximumDepthForCreation   = 6
MaximumDepthForCrossover  = 17
SelectionType             = Tournament selection
TournamentSize            = 20
DemeticGrouping           = Off
DemeSize                  = 100
DemeticMigProbability     = 100
SwapMutationProbability   = 3
ShrinkMutationProbability = 3
AddBestToNewPopulation    = 1
SteadyState               = 0
```

$$\begin{aligned} f_1 &= f_2(x,x)x \\ f_2 &= x_1x_1 + x_2 + x_2x_2x_2 + x_1 \end{aligned}$$

Generation 1, fitness 109.055

$$\begin{aligned} f_1 &= f_2(x,x)x \\ f_2 &= x_1x_2 + x_2 + x_2x_2x_2 + x_1 \end{aligned}$$

Generation 2, fitness 1.66667

$$\begin{aligned} f_1 &= \left(\frac{x}{x} + f_2(x,x)\right)x \\ f_2 &= x_1x_1 + x_2 + x_2x_2x_2 \end{aligned}$$

Generation 3, fitness 1

$$\begin{aligned} f_1 &= f_2(xx, f_2(x,x)) \\ f_2 &= x_1x_2 + x_2 \end{aligned}$$

Generation 4, fitness 1

$$\begin{aligned} f_1 &= f_2(xx, f_2(x,x)) \\ f_2 &= x_1x_2 + x_2 \end{aligned}$$

Generation 5, fitness 1

$$\begin{aligned} f_1 &= f_2(xx, f_2(x,x)) \\ f_2 &= x_1x_2 + x_2 \end{aligned}$$

Generation 6, fitness 1

$$\begin{aligned} f_1 &= f_2(xx, f_2(x,x)) \\ f_2 &= x_1x_2 + x_2 \end{aligned}$$

Generation 7, fitness 1

$$\begin{aligned} f_1 &= f_2(xx, f_2(x,x)) \\ f_2 &= x_1x_2 + x_2 \end{aligned}$$

Generation 8, fitness 1

$$\begin{aligned} f_1 &= f_2(xx, f_2(x, x)) \\ f_2 &= x_1x_2 + x_2 \end{aligned}$$

Generation 9, fitness 1

$$\begin{aligned} f_1 &= f_2(xx, f_2(x, x)) \\ f_2 &= x_1x_2 + x_2 \end{aligned}$$

Generation 10, fitness 1

$$\begin{aligned} f_1 &= f_2(xx, f_2(x, x)) \\ f_2 &= x_1x_2 + x_2 \end{aligned}$$

Generation 11, fitness 1

$$\begin{aligned} f_1 &= f_2(xx, f_2(x, x)) \\ f_2 &= x_2x_1 + x_2 \end{aligned}$$

Generation 12, fitness 1

$$\begin{aligned} f_1 &= f_2(xx, f_2(x, x)) \\ f_2 &= x_1x_2 + x_2 \end{aligned}$$

Generation 13, fitness 1

$$\begin{aligned} f_1 &= f_2(xx, f_2(x, x)) \\ f_2 &= x_1x_2 + x_2 \end{aligned}$$

Generation 14, fitness 1

$$\begin{aligned} f_1 &= f_2(xx, f_2(x, x)) \\ f_2 &= x_1x_2 + x_2 \end{aligned}$$

Generation 15, fitness 1

$$\begin{aligned} f_1 &= f_2(xx, f_2(x, x)) \\ f_2 &= x_1x_2 + x_2 \end{aligned}$$

Generation 16, fitness 1

$$\begin{aligned} f_1 &= f_2(xx, f_2(x, x)) \\ f_2 &= x_1x_2 + x_2 \end{aligned}$$

Generation 17, fitness 1

$$\begin{aligned} f_1 &= f_2(xx, f_2(x, x)) \\ f_2 &= x_1x_2 + x_2 \end{aligned}$$

Generation 18, fitness 1

$$\begin{aligned} f_1 &= f_2(xx, f_2(x, x)) \\ f_2 &= x_1x_2 + x_2 \end{aligned}$$

Generation 19, fitness 1

$$\begin{aligned} f_1 &= f_2(xx, f_2(x, x)) \\ f_2 &= x_1x_2 + x_2 \end{aligned}$$

Generation 20, fitness 1

$$\begin{aligned} f_1 &= f_2(xx, f_2(x, x)) \\ f_2 &= x_1x_2 + x_2 \end{aligned}$$