**GA实验**

The deceptive functions are a family of functions in which there exists low-order building blocks that do not combine to form the higher-order building blocks. Here, a deceptive problem that consists of 25 copies of the order-4 deceptive function DF is constructed for this paper. DF can be described as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| f(0000)=4 | f(0001)=1 | f(0010)=1 | f(0011)=2 |
| f(0100)=1 | f(0101)=2 | f(0110)=2 | f(0111)=3 |
| f(1000)=1 | f(1001)=2 | f(1010)=2 | f(1011)=3 |
| f(1100)=2 | f(1101)=3 | f(1110)=3 | f(1111)=0 |

This problem has a maximal function value of 100.