

1. API (Neural Network)

It's in `neural_network.py`. In which you can find 3 functions, `__init__()`, `getLayer()` and `forward()`.

In `__init__()`, the weights between different layers are initialized using `torch.distributions.normal()`, and the mean is 0, with standard deviation $1/\sqrt{\text{layer_size}}$. The input size is $2 \times n$, and output size is $1 \times n$.

2. API(logic_gates)

It's in `logic_gates.py`. Logic operations are implemented by manually deciding the layout of neural network and assigning weights between different layers.

The `test.py` contains testing code.