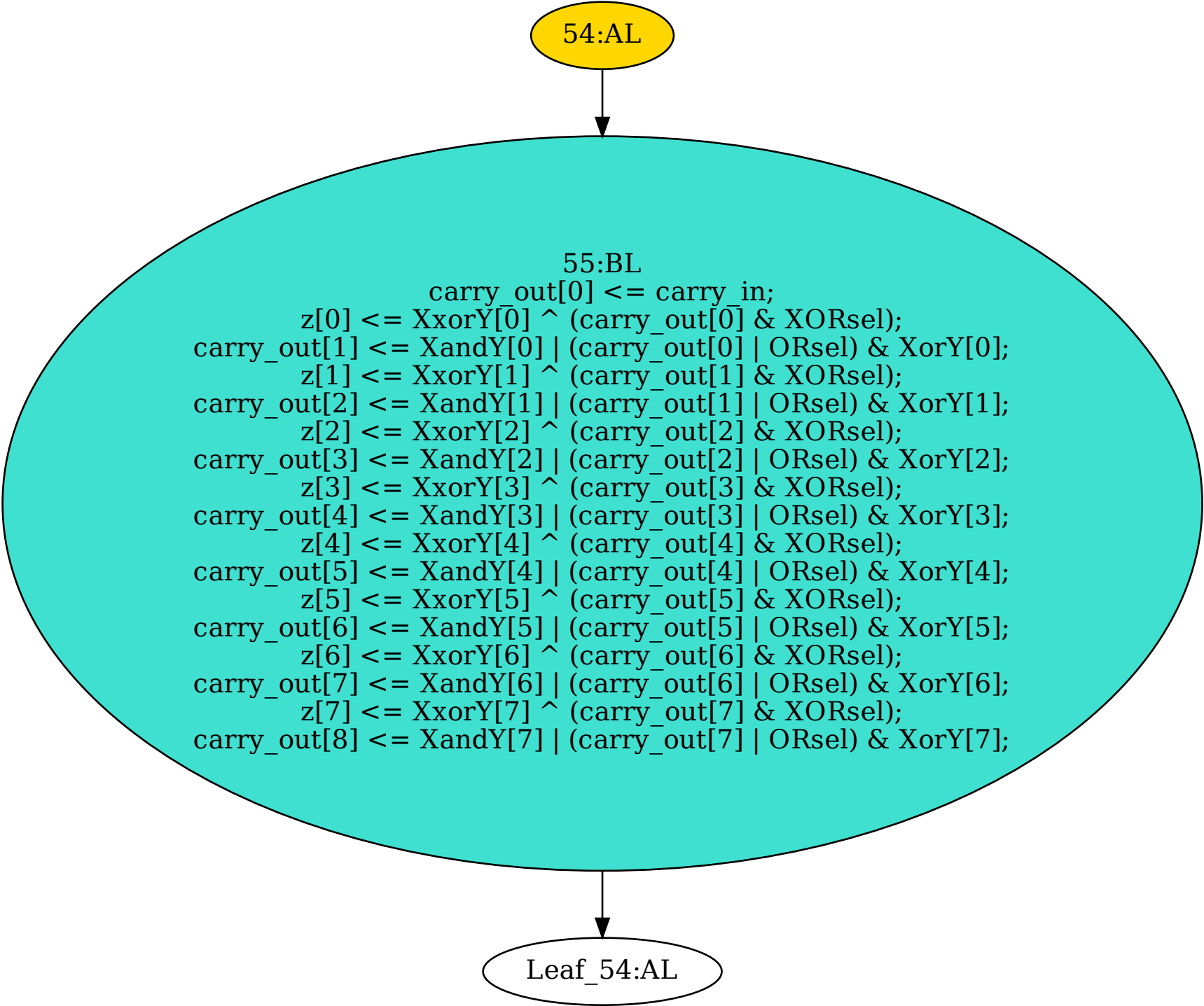


54:AL



```
graph TD; A([54:AL]) --> B(( )); B --> C([Leaf_54:AL]);
```

55:BL

```
    carry_out[0] <= carry_in;
    z[0] <= XxorY[0] ^ (carry_out[0] & XORsel);
    carry_out[1] <= XandY[0] | (carry_out[0] | ORsel) & XorY[0];
    z[1] <= XxorY[1] ^ (carry_out[1] & XORsel);
    carry_out[2] <= XandY[1] | (carry_out[1] | ORsel) & XorY[1];
    z[2] <= XxorY[2] ^ (carry_out[2] & XORsel);
    carry_out[3] <= XandY[2] | (carry_out[2] | ORsel) & XorY[2];
    z[3] <= XxorY[3] ^ (carry_out[3] & XORsel);
    carry_out[4] <= XandY[3] | (carry_out[3] | ORsel) & XorY[3];
    z[4] <= XxorY[4] ^ (carry_out[4] & XORsel);
    carry_out[5] <= XandY[4] | (carry_out[4] | ORsel) & XorY[4];
    z[5] <= XxorY[5] ^ (carry_out[5] & XORsel);
    carry_out[6] <= XandY[5] | (carry_out[5] | ORsel) & XorY[5];
    z[6] <= XxorY[6] ^ (carry_out[6] & XORsel);
    carry_out[7] <= XandY[6] | (carry_out[6] | ORsel) & XorY[6];
    z[7] <= XxorY[7] ^ (carry_out[7] & XORsel);
    carry_out[8] <= XandY[7] | (carry_out[7] | ORsel) & XorY[7];
```

Leaf_54:AL