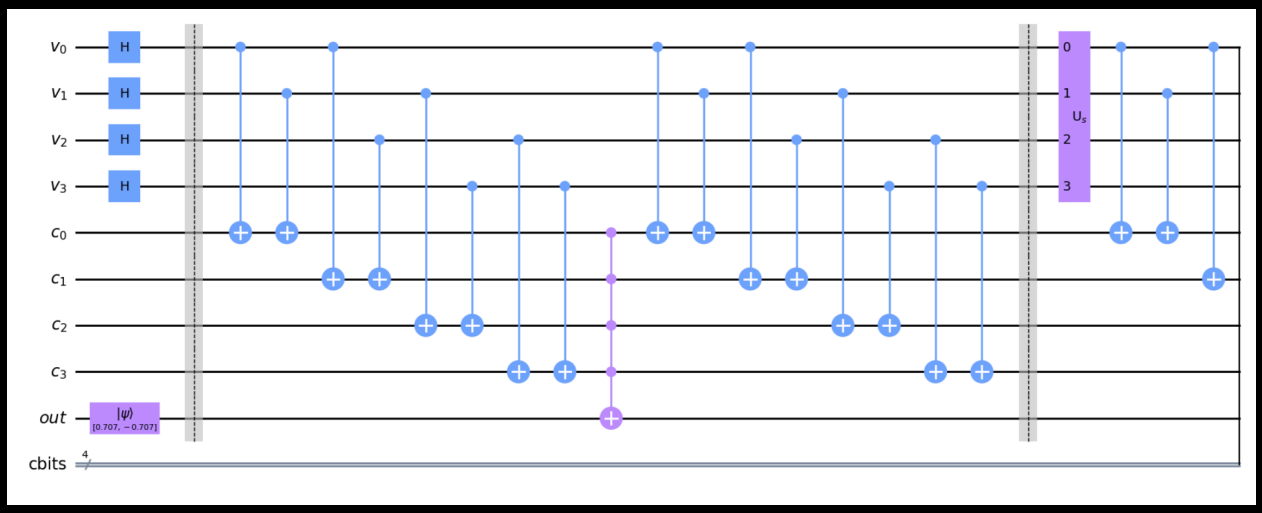
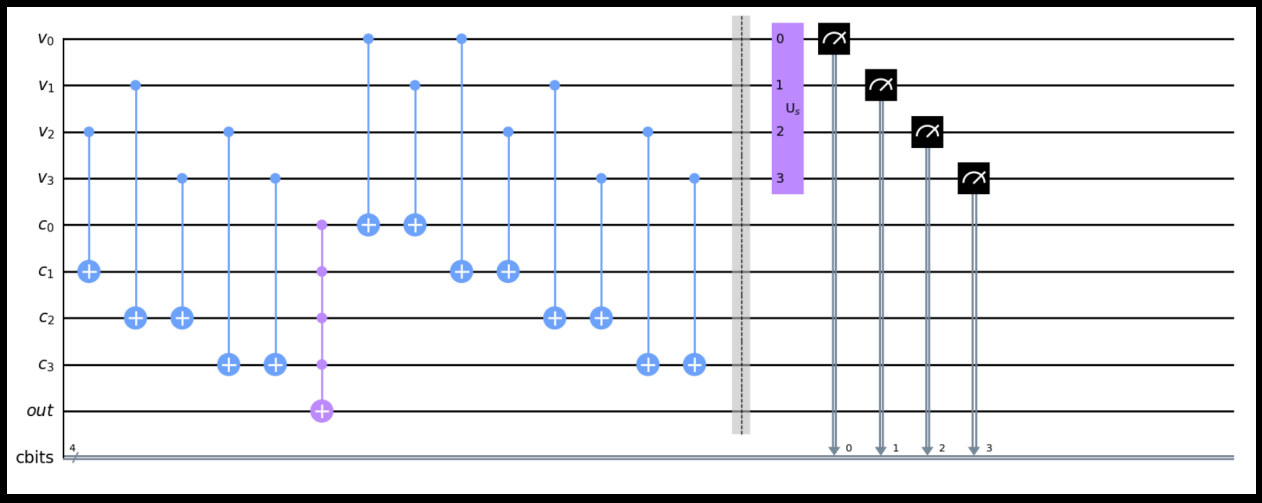
Format:
num_city: number of country/city
clause_list: a list that connect two country/city

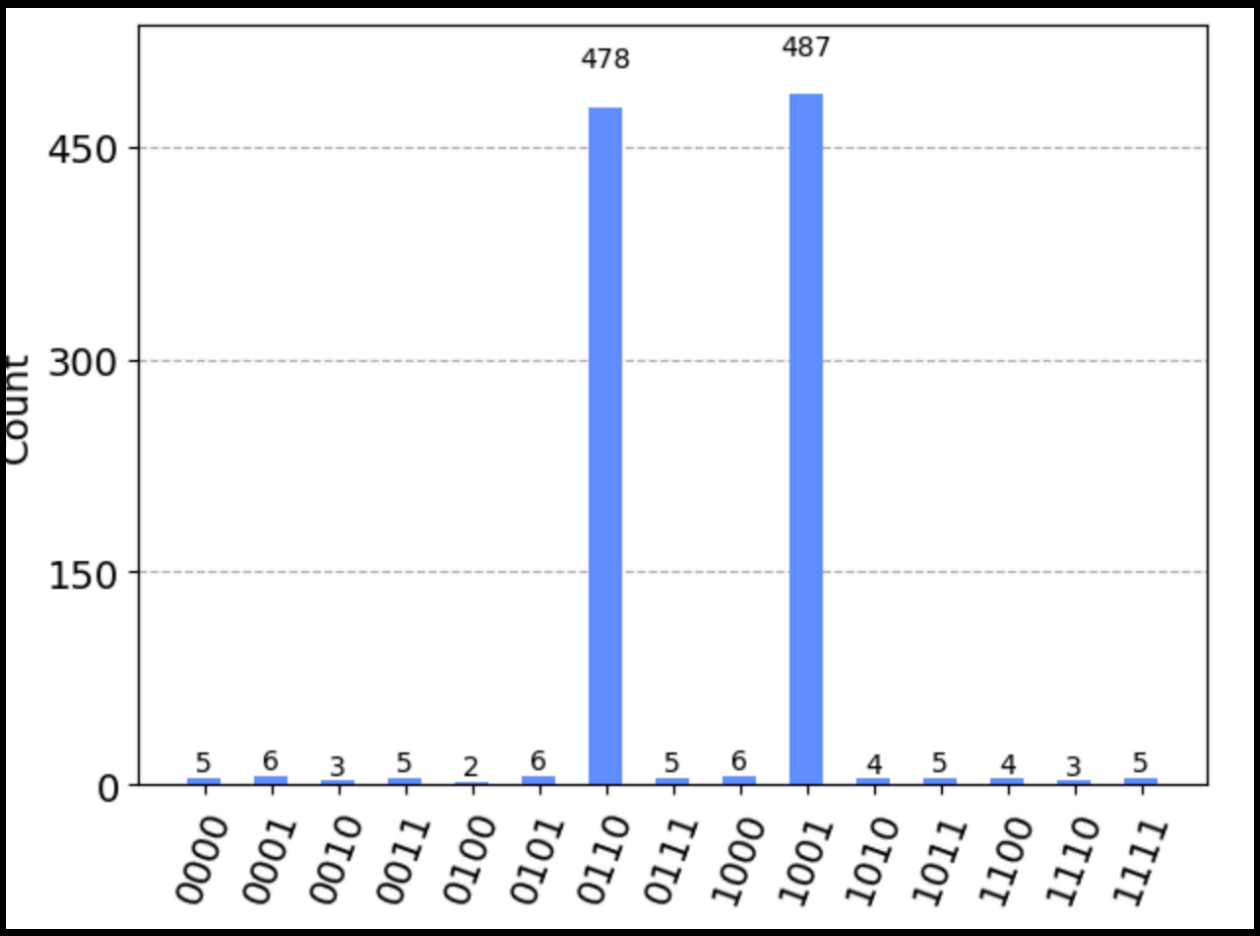
For example:
num_city = 4
01
23

0-1, 0-2, 1-3, 2-3 is connect

clause_list = [[0,1],
[0,2],
[1,3],
[2,3]]
num_city = 4



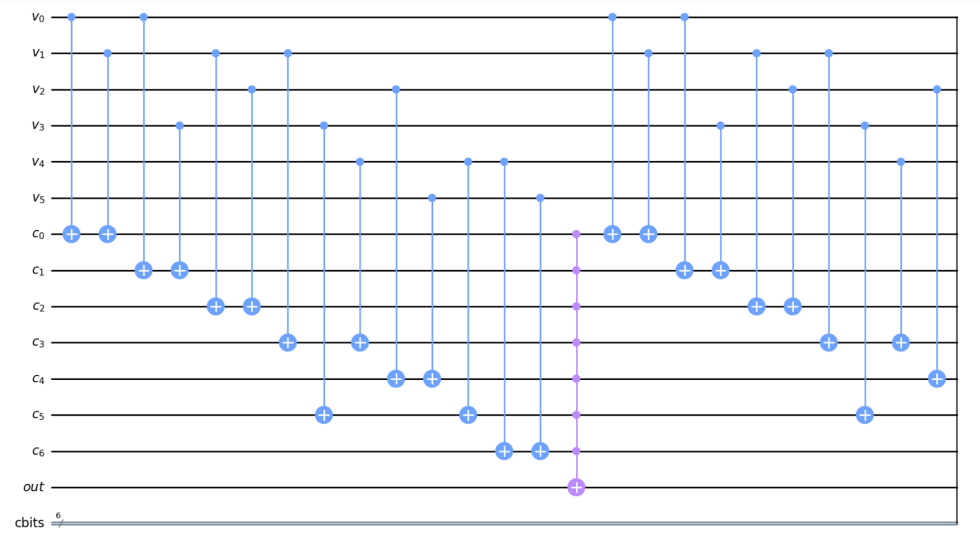



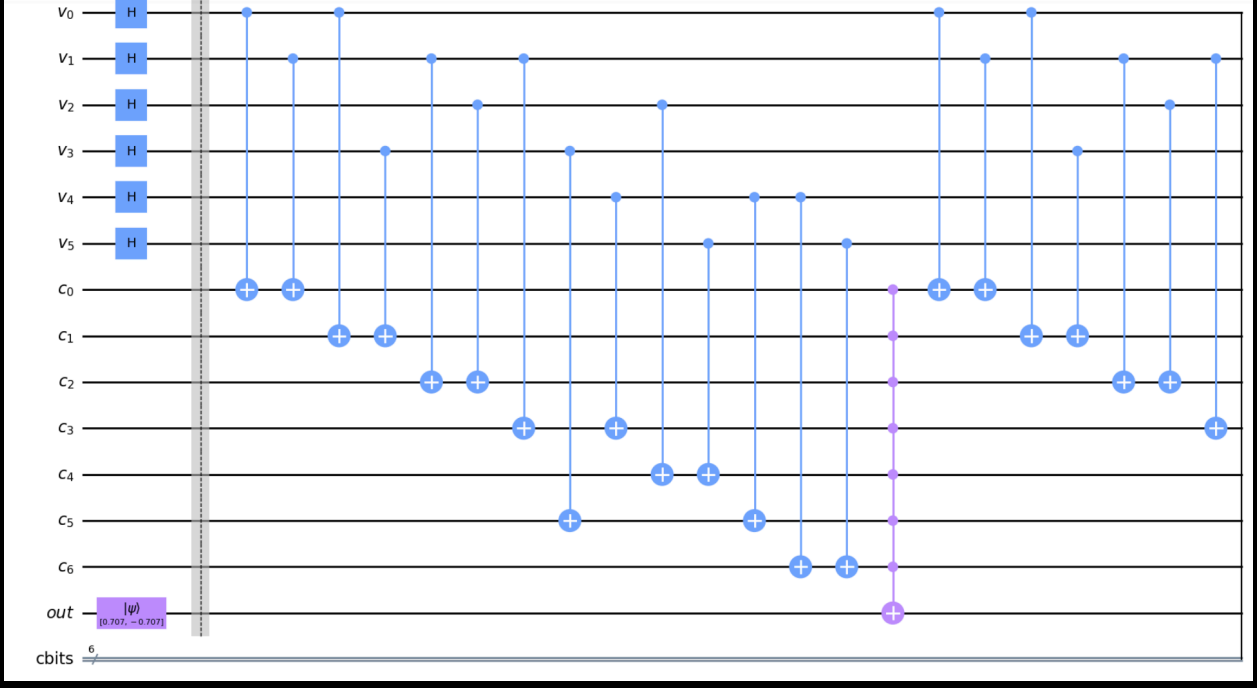


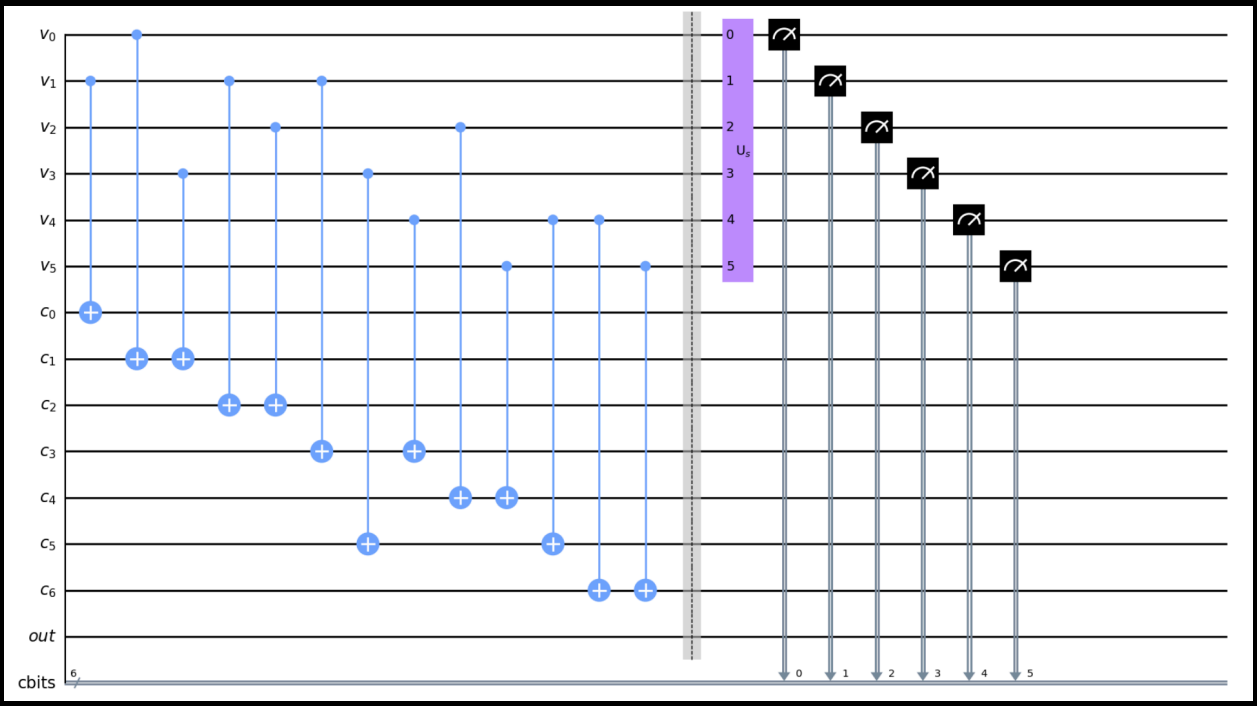

In this case 0110, and 1001 is a correct answer which represent, either
(1) 0110: 1,3 are black; 2, 4 are white
(2) 1001: 1,3 are white; 2,4 are black

Another example for num_city = 6
012
345

clause_list = [[0,1],
[0,3],
[1,2],
[1,4],
[2,5],
[3,4],
[4,5]]
num_city = 6

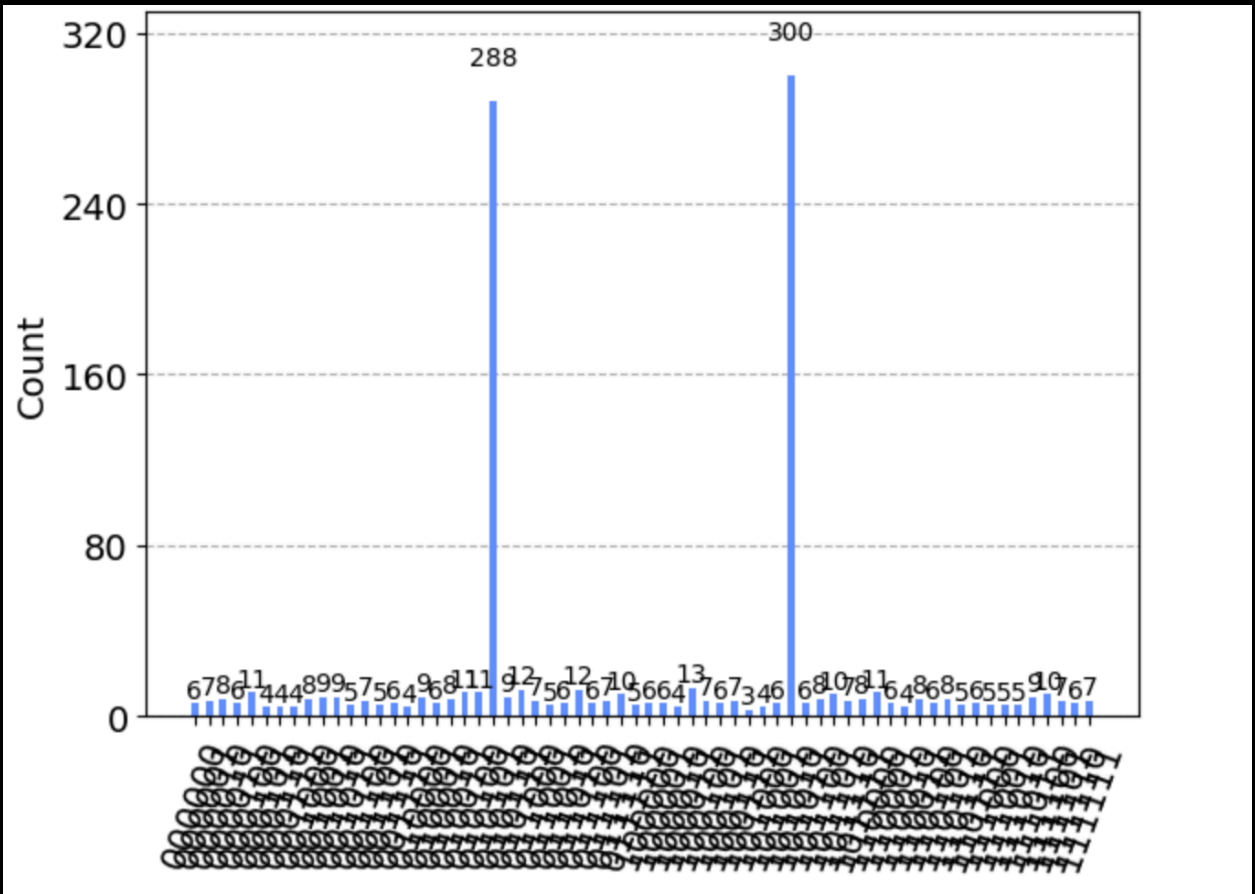





0x15 = 0b01010 : 288 counts
0x2a = 0b10101 : 300 counts

Result:


320
240
160
80
0
Count
288
300