(n=2)

1 = "L"
2 = "R"
3 = "O"

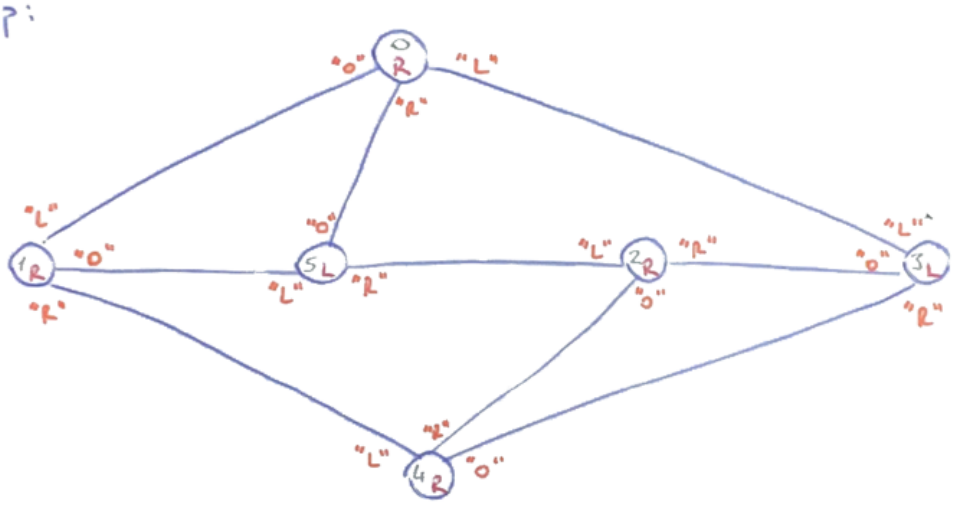
Adjacency Matrix:

i \ j	v_0	v_1	v_2	v_3	v_4	v_5
v_0	0	3 "O"	0	1 "L"	0	2 "R"
v_1	1 "L"	0	0	0	2 "R"	3 "O"
v_2	0	0	0	2 "R"	3 "O"	1 "L"
v_3	1 "L"	0	3 "O"	0	2 "R"	0
v_4	0	1 "L"	2 "R"	3 "O"	0	0
v_5	3 "O"	1 "L"	2 "R"	0	0	0

Vertex Settings:

v_0	2 "R"
v_1	2 "R"
v_2	2 "R"
v_3	1 "L"
v_4	2 "R"
v_5	1 "L"

Map:



Simulation 1:

	Vertex	Direction
1/5 :	0	2 "R"
2/5 :	5	1 "L"
3/5 :	1	2 "R"
4/5 :	4	3 "O"
5/5 :	3	3 "O"

Signals:
Real: [2 (R), 1 (L), 2 (R), 3 (O), 3 (O)]
Obs: [2 (R), 1 (L), 3 (R), 3 (O), 3 (O)]

Simulation 2:

	Vertex	Direction
1/5 :	5	3 "O"
2/5 :	0	3 "O"
3/5 :	1	3 "O"
4/5 :	5	3 "O"
5/5 :	0	3 "O"

Signals:
Real: [3, 3, 3, 3, 3]
Obs: [3, 3, 2, 1, 3]