Adjacency matrix of A

	V_1	V_2	V_3
V_1	0	2	1
V_2	1	0	1
V_3	0	1	1

Incidence matrix of A

	e_1	e_2	e_3	e_4	e_5	e_6	e_7
V_1	1	1	−1	1	0	0	0
V_2	−1	−1	1	0	1	−1	0
V_3	0	0	0	−1	−1	1	1

A djacency matrix 2nd graph

	v_1	v_2	v_3	v_4	v_5	v_6
v_1	0	1	0	0	1	1
v_2	1	0	1	0	1	0
v_3	0	1	0	1	0	0
v_4	0	0	1	0	1	0
v_5	1	1	0	1	0	0
v_6	1	0	0	0	0	0

Incidence matrix 2nd graph

	e_1	e_2	e_3	e_4	e_5	e_6	e_7	e_8	e_9	e_{10}
v_1	1	0	0	0	0	0	0	1	1	1
v_2	1	1	0	0	0	0	1	0	0	0
v_3	0	1	1	0	0	0	0	0	0	0
v_4	0	1	1	1	1	0	0	0	0	0
v_5	0	0	0	0	0	1	1	1	1	0
v_6	0	0	0	0	0	0	0	0	0	1