

	$P_{(a,a)}$	$P_{(a,b)}$	$P_{(a,c)}$	$P_{(b,a)}$	$P_{(b,b)}$	$P_{(b,c)}$	$P_{(c,a)}$	$P_{(c,b)}$	$P_{(x,x)}^a$
1	1	1	1	1	1	1	1	1	1
2	0	1	1	0	0	0	1	0	0
3	1	1	0	0	0	1	1	1	0
4	0	1	0	1	1	0	1	1	0
5	0	1	0	1	1	0	0	0	0

^aHere, $P_{(x,x)}$ indicates the edges that are not present in the \mathcal{P} -graph.