

Caterpillar	Solvability	$F_s(G)$	Caterpillar	Solvability	$F_s(G)$
$P_5(1, 0, 0, 0, 1)$	Distance 2	3	$P_5(4, 0, 0, 1, 1)$	3-Solvable	7
$P_5(2, 0, 0, 0, 1)$	Distance 2	4	$P_5(1, 4, 0, 0, 1)$	Distance 2	7
$P_5(1, 1, 0, 0, 1)$	Solvable	4	$P_5(1, 0, 4, 0, 1)$	4-Solvable	7
$P_5(1, 0, 1, 0, 1)$	2-Solvable	4	$P_5(3, 0, 0, 0, 3)$	4-Solvable	7
$P_5(3, 0, 0, 0, 1)$	2-Solvable	5	$P_5(3, 1, 0, 0, 2)$	3-Solvable	6
$P_5(2, 0, 0, 0, 2)$	3-Solvable	5	$P_5(3, 0, 1, 0, 2)$	4-Solvable	7
$P_5(2, 1, 0, 0, 1)$	Distance 2	5	$P_5(3, 0, 0, 1, 2)$	3-Solvable	6
$P_5(2, 0, 1, 0, 1)$	3-Solvable	5	$P_5(3, 2, 0, 0, 1)$	Distance 2	7
$P_5(2, 0, 0, 1, 1)$	Solvable	5	$P_5(3, 0, 2, 0, 1)$	4-Solvable	7
$P_5(1, 2, 0, 0, 1)$	Solvable	5	$P_5(3, 0, 0, 2, 1)$	Solvable	7
$P_5(1, 2, 0, 0, 1)$	Solvable	5	$P_5(2, 3, 0, 0, 1)$	Solvable	7
$P_5(1, 0, 2, 0, 1)$	Distance 2	5	$P_5(2, 0, 3, 0, 1)$	4-Solvable	7
$P_5(1, 1, 1, 0, 1)$	Solvable	4	$P_5(2, 0, 0, 3, 1)$	Solvable	7
$P_5(1, 1, 0, 1, 1)$	Freely	5	$P_5(3, 1, 1, 0, 1)$	Distance 2	6
$P_5(4, 0, 0, 0, 1)$	3-Solvable	6	$P_5(3, 1, 0, 1, 1)$	Solvable	7
$P_5(3, 0, 0, 0, 2)$	3-Solvable	6	$P_5(3, 0, 1, 1, 1)$	2-Solvable	6
$P_5(3, 1, 0, 0, 1)$	Distance 2	6	$P_5(1, 3, 1, 0, 1)$	Freely	6
$P_5(3, 0, 1, 0, 1)$	3-Solvable	6	$P_5(1, 3, 0, 1, 1)$	Solvable	7
$P_5(3, 0, 0, 1, 1)$	Distance 2	6	$P_5(1, 1, 3, 0, 1)$	Distance 2	6
$P_5(1, 3, 0, 0, 1)$	Solvable	6	$P_5(2, 2, 0, 0, 2)$	Solvable	6
$P_5(1, 0, 3, 0, 1)$	3-Solvable	6	$P_5(2, 0, 2, 0, 2)$	4-Solvable	7
$P_5(2, 1, 0, 0, 2)$	Distance 2	5	$P_5(2, 1, 1, 0, 2)$	Distance 2	6
$P_5(2, 0, 1, 0, 2)$	4-Solvable	6	$P_5(2, 1, 0, 1, 2)$	Solvable	6
$P_5(2, 2, 0, 0, 1)$	Solvable	6	$P_5(2, 2, 1, 0, 1)$	Solvable	6
$P_5(2, 0, 2, 0, 1)$	3-Solvable	6	$P_5(2, 2, 0, 1, 1)$	Freely	7
$P_5(2, 0, 0, 2, 1)$	Freely	6	$P_5(2, 0, 2, 1, 1)$	Distance 2	6
$P_5(2, 1, 1, 0, 1)$	Solvable	5	$P_5(2, 0, 1, 2, 1)$	Solvable	6
$P_5(2, 1, 0, 1, 1)$	Solvable	6	$P_5(2, 1, 0, 2, 1)$	Freely	7
$P_5(2, 0, 1, 1, 1)$	Distance 2	5	$P_5(2, 1, 2, 0, 1)$	Distance 2	6
$P_5(1, 2, 1, 0, 1)$	Solvable	5	$P_5(1, 2, 2, 0, 1)$	Freely	6
$P_5(1, 2, 0, 1, 1)$	Solvable	6	$P_5(1, 2, 0, 2, 1)$	Distance 2	7
$P_5(1, 1, 2, 0, 1)$	Solvable	5	$P_5(2, 1, 1, 1, 1)$	Freely	6
$P_5(1, 1, 1, 1, 1)$	Freely	5	$P_5(1, 2, 1, 1, 1)$	Freely	6
$P_5(5, 0, 0, 0, 1)$	4-Solvable	7	$P_5(1, 1, 2, 1, 1)$	Freely	6
$P_5(4, 0, 0, 0, 2)$	4-Solvable	7	$P_5(6, 0, 0, 0, 1)$	5-Solvable	8
$P_5(4, 1, 0, 0, 1)$	2-Solvable	7	$P_5(5, 0, 0, 0, 2)$	5-Solvable	8
$P_5(4, 0, 1, 0, 1)$	4-Solvable	7	$P_5(5, 1, 0, 0, 1)$	3-Solvable	8

Caterpillar	Solvability	$F_s(G)$	Caterpillar	Solvability	$F_s(G)$
$P_5(5, 0, 1, 0, 1)$	5-Solvable	8	$P_5(3, 0, 2, 1, 1)$	3-Solvable	7
$P_5(5, 0, 0, 1, 1)$	4-Solvable	8	$P_5(3, 0, 1, 2, 1)$	Solvable	7
$P_5(1, 5, 0, 0, 1)$	3-Solvable	8	$P_5(2, 3, 1, 0, 1)$	Freely	7
$P_5(1, 0, 5, 0, 1)$	5-Solvable	8	$P_5(2, 3, 0, 1, 1)$	Freely	8
$P_5(4, 0, 0, 0, 3)$	5-Solvable	8	$P_5(2, 1, 3, 0, 1)$	3-Solvable	7
$P_5(4, 1, 0, 0, 2)$	3-Solvable	7	$P_5(2, 1, 0, 3, 1)$	Solvable	8
$P_5(4, 0, 1, 0, 2)$	5-Solvable	8	$P_5(2, 0, 3, 1, 1)$	3-Solvable	7
$P_5(4, 0, 0, 1, 2)$	4-Solvable	7	$P_5(2, 0, 1, 3, 1)$	Freely	7
$P_5(4, 2, 0, 0, 1)$	Distance 2	8	$P_5(1, 3, 2, 0, 1)$	Solvable	7
$P_5(4, 0, 2, 0, 1)$	5-Solvable	8	$P_5(1, 3, 0, 2, 1)$	Distance 2	8
$P_5(4, 0, 0, 2, 1)$	Solvable	8	$P_5(1, 2, 3, 0, 1)$	Solvable	7
$P_5(2, 4, 0, 0, 1)$	Solvable	8	$P_5(3, 1, 1, 1, 1)$	Solvable	7
$P_5(2, 0, 4, 0, 1)$	5-Solvable	8	$P_5(1, 3, 1, 1, 1)$	Freely	7
$P_5(2, 0, 0, 4, 1)$	Solvable	8	$P_5(1, 1, 3, 1, 1)$	Solvable	7
$P_5(4, 1, 1, 0, 1)$	3-Solvable	7	$P_5(2, 2, 1, 0, 2)$	Distance 2	7
$P_5(4, 1, 0, 1, 1)$	Distance 2	8	$P_5(2, 2, 0, 1, 2)$	Freely	7
$P_5(4, 0, 1, 1, 1)$	3-Solvable	7	$P_5(2, 1, 2, 0, 1)$	3-Solvable	7
$P_5(1, 4, 1, 0, 1)$	Solvable	7	$P_5(2, 2, 2, 0, 1)$	Solvable	7
$P_5(1, 4, 0, 1, 1)$	Distance 2	8	$P_5(2, 2, 0, 2, 1)$	Solvable	8
$P_5(1, 1, 4, 0, 1)$	3-Solvable	7	$P_5(2, 0, 2, 2, 1)$	Solvable	7
$P_5(3, 1, 0, 0, 3)$	4-Solvable	7	$P_5(2, 1, 1, 1, 2)$	Solvable	7
$P_5(3, 0, 1, 0, 3)$	5-Solvable	8	$P_5(2, 2, 1, 1, 1)$	Freely	7
$P_5(3, 3, 0, 0, 1)$	Solvable	8	$P_5(2, 1, 2, 1, 1)$	Solvable	7
$P_5(3, 0, 3, 0, 1)$	5-Solvable	8	$P_5(2, 1, 1, 2, 1)$	Freely	7
$P_5(3, 0, 0, 3, 1)$	Solvable	8	$P_5(1, 2, 2, 1, 1)$	Freely	7
$P_5(3, 2, 0, 0, 2)$	Distance 2	7	$P_5(1, 2, 1, 2, 1)$	Freely	7
$P_5(3, 0, 2, 0, 2)$	5-Solvable	8	$P_6(1, 0, 0, 0, 0, 1)$	Solvable	4
$P_5(3, 0, 0, 2, 2)$	Solvable	7	$P_6(2, 0, 0, 0, 0, 1)$	Solvable	5
$P_5(2, 3, 0, 0, 1)$	Freely	7	$P_6(1, 1, 0, 0, 0, 1)$	Solvable	5
$P_5(2, 0, 3, 0, 2)$	5-Solvable	8	$P_6(1, 0, 1, 0, 0, 1)$	Solvable	5
$P_5(3, 1, 1, 0, 2)$	3-Solvable	7	$P_6(3, 0, 0, 0, 0, 1)$	Distance 2	6
$P_5(3, 1, 0, 1, 0)$	Solvable	7	$P_6(2, 0, 0, 0, 0, 2)$	Solvable	6
$P_5(3, 0, 1, 1, 2)$	3-Solvable	7	$P_6(2, 1, 0, 0, 0, 1)$	Solvable	6
$P_5(3, 2, 1, 0, 1)$	Solvable	7	$P_6(2, 0, 1, 0, 0, 1)$	Solvable	6
$P_5(3, 2, 0, 1, 1)$	Solvable	8	$P_6(2, 0, 0, 1, 0, 1)$	Distance 2	6
$P_5(3, 1, 2, 0, 1)$	3-Solvable	7	$P_6(2, 0, 0, 0, 1, 1)$	Distance 2	6
$P_5(3, 1, 0, 2, 1)$	Freely	8	$P_6(1, 2, 0, 0, 0, 1)$	Distance 2	6

Caterpillar	Solvability	$Fs(G)$	Caterpillar	Solvability	$Fs(G)$
$P_6(1, 0, 2, 0, 0, 1)$	Solvable	6	$P_6(4, 0, 0, 0, 1, 1)$	3-Solvable	8
$P_6(1, 1, 1, 0, 0, 1)$	Solvable	5	$P_6(1, 4, 0, 0, 0, 1)$	3-Solvable	8
$P_6(1, 1, 0, 1, 0, 1)$	Solvable	6	$P_6(1, 0, 4, 0, 0, 1)$	Distance 2	8
$P_6(1, 1, 0, 0, 1, 1)$	Freely	5	$P_6(3, 0, 0, 0, 0, 3)$	3-Solvable	8
$P_6(4, 0, 0, 0, 0, 1)$	3-Solvable	7	$P_6(3, 1, 0, 0, 0, 2)$	Solvable	8
$P_6(3, 0, 0, 0, 0, 2)$	Distance 2	7	$P_6(3, 0, 1, 0, 0, 2)$	2-Solvable	8
$P_6(3, 1, 0, 0, 0, 1)$	Solvable	7	$P_6(3, 0, 0, 1, 0, 2)$	3-Solvable	8
$P_6(3, 0, 1, 0, 0, 1)$	Solvable	7	$P_6(3, 0, 0, 0, 1, 2)$	Distance 2	8
$P_6(3, 0, 0, 1, 0, 1)$	3-Solvable	7	$P_6(3, 2, 0, 0, 0, 1)$	Solvable	8
$P_6(3, 0, 0, 0, 1, 1)$	Distance 2	7	$P_6(3, 0, 2, 0, 0, 1)$	Distance 2	8
$P_6(1, 3, 0, 0, 0, 1)$	2-Solvable	7	$P_6(3, 0, 0, 2, 0, 1)$	Distance 2	8
$P_6(1, 0, 3, 0, 0, 1)$	Solvable	7	$P_6(3, 0, 0, 0, 2, 1)$	3-Solvable	8
$P_6(2, 1, 0, 0, 0, 2)$	Solvable	7	$P_6(2, 3, 0, 0, 0, 1)$	Distance 2	8
$P_6(2, 0, 1, 0, 0, 2)$	Distance 2	7	$P_6(2, 0, 3, 0, 0, 1)$	Distance 2	8
$P_6(2, 2, 0, 0, 0, 1)$	Solvable	7	$P_6(2, 0, 0, 3, 0, 1)$	Distance 2	8
$P_6(2, 0, 2, 0, 0, 1)$	Distance 2	7	$P_6(2, 0, 0, 0, 3, 1)$	3-Solvable	8
$P_6(2, 0, 0, 2, 0, 1)$	Solvable	7	$P_6(3, 1, 1, 0, 0, 1)$	Solvable	7
$P_6(2, 0, 0, 0, 2, 1)$	Distance 2	7	$P_6(3, 1, 0, 1, 0, 1)$	Distance 2	8
$P_6(2, 1, 1, 0, 0, 1)$	Solvable	6	$P_6(3, 1, 0, 0, 1, 1)$	Solvable	7
$P_6(2, 1, 0, 1, 0, 1)$	Solvable	7	$P_6(3, 0, 1, 1, 0, 1)$	Distance 2	7
$P_6(2, 1, 0, 0, 1, 1)$	Solvable	6	$P_6(3, 0, 1, 0, 1, 1)$	2-Solvable	8
$P_6(2, 0, 1, 1, 0, 1)$	Solvable	6	$P_6(3, 0, 0, 1, 1, 1)$	Solvable	7
$P_6(2, 0, 1, 0, 1, 1)$	Distance 2	7	$P_6(1, 3, 1, 0, 0, 1)$	Solvable	7
$P_6(2, 0, 0, 1, 1, 1)$	Freely	6	$P_6(1, 3, 0, 1, 0, 1)$	Distance 2	8
$P_6(1, 2, 1, 0, 0, 1)$	Solvable	6	$P_6(1, 3, 0, 0, 1, 1)$	Solvable	7
$P_6(1, 2, 0, 1, 0, 1)$	Solvable	7	$P_6(1, 0, 3, 1, 0, 1)$	Solvable	7
$P_6(1, 2, 0, 0, 1, 1)$	Solvable	6	$P_6(1, 1, 3, 0, 0, 1)$	Solvable	7
$P_6(1, 0, 2, 1, 0, 1)$	Solvable	6	$P_6(1, 1, 0, 3, 0, 1)$	Distance 2	8
$P_6(1, 1, 2, 0, 0, 1)$	Solvable	6	$P_6(2, 2, 0, 0, 0, 2)$	Distance 2	8
$P_6(1, 1, 0, 2, 0, 1)$	Distance 2	7	$P_6(2, 0, 2, 0, 0, 2)$	Distance 2	8
$P_6(1, 1, 1, 1, 0, 1)$	Solvable	6	$P_6(2, 1, 1, 0, 0, 2)$	Solvable	7
$P_6(1, 1, 1, 0, 1, 1)$	Freely	6	$P_6(2, 1, 0, 1, 0, 2)$	Solvable	8
$P_6(5, 0, 0, 0, 0, 1)$	4-Solvable	8	$P_6(2, 1, 0, 0, 1, 2)$	Solvable	7
$P_6(4, 0, 0, 0, 0, 2)$	3-Solvable	8	$P_6(2, 0, 1, 1, 0, 2)$	Solvable	7
$P_6(4, 1, 0, 0, 0, 1)$	Distance 2	8	$P_6(2, 2, 1, 0, 0, 1)$	Freely	7
$P_6(4, 0, 1, 0, 0, 1)$	Distance 2	8	$P_6(2, 2, 0, 1, 0, 1)$	Solvable	8
$P_6(4, 0, 0, 1, 0, 1)$	4-Solvable	8	$P_6(2, 2, 0, 0, 1, 1)$	Freely	7

Caterpillar	Solvability	$Fs(G)$	Caterpillar	Solvability	$Fs(G)$
$P_6(2, 1, 2, 0, 0, 1)$	Solvable	7	$P_7(1, 0, 2, 0, 0, 0, 1)$	Distance 2	6
$P_6(2, 1, 0, 2, 0, 1)$	Solvable	8	$P_7(1, 0, 0, 2, 0, 0, 1)$	Solvable	6
$P_6(2, 1, 0, 0, 2, 1)$	Solvable	7	$P_7(1, 1, 1, 0, 0, 0, 1)$	Distance 2	5
$P_6(2, 0, 2, 1, 0, 1)$	Solvable	7	$P_7(1, 1, 0, 1, 0, 0, 1)$	Solvable	6
$P_6(2, 0, 2, 0, 1, 1)$	3-Solvable	8	$P_7(1, 1, 0, 0, 1, 0, 1)$	Solvable	5
$P_6(2, 0, 1, 2, 0, 1)$	Distance 2	7	$P_7(1, 1, 0, 0, 0, 1, 1)$	Freely	6
$P_6(2, 0, 1, 0, 2, 1)$	Distance 2	8	$P_7(1, 0, 1, 1, 0, 0, 1)$	Solvable	5
$P_6(2, 0, 0, 2, 1, 1)$	Freely	7	$P_7(1, 0, 1, 0, 1, 0, 1)$	2-Solvable	6
$P_6(2, 0, 0, 1, 2, 1)$	Solvable	7	$P_7(4, 0, 0, 0, 0, 0, 1)$	4-Solvable	7
$P_6(1, 2, 2, 0, 0, 1)$	Freely	7	$P_7(3, 0, 0, 0, 0, 0, 2)$	4-Solvable	7
$P_6(1, 2, 0, 2, 0, 1)$	Distance 2	8	$P_7(3, 1, 0, 0, 0, 0, 1)$	Distance 2	7
$P_6(1, 2, 0, 0, 2, 0, 1)$	Freely	7	$P_7(3, 0, 1, 0, 0, 0, 1)$	2-Solvable	7
$P_6(1, 0, 2, 2, 0, 0, 1)$	Solvable	7	$P_7(3, 0, 0, 1, 0, 0, 1)$	3-Solvable	7
$P_6(2, 1, 1, 1, 0, 1)$	Solvable	7	$P_7(3, 0, 0, 0, 1, 0, 1)$	3-Solvable	7
$P_6(2, 1, 1, 0, 2, 1)$	Solvable	7	$P_7(3, 0, 0, 0, 0, 1, 1)$	Distance 2	7
$P_6(2, 1, 0, 1, 1, 1)$	Freely	7	$P_7(1, 3, 0, 0, 0, 0, 1)$	Solvable	7
$P_6(2, 0, 1, 1, 1, 1)$	Solvable	7	$P_7(1, 0, 3, 0, 0, 0, 1)$	2-Solvable	7
$P_6(1, 2, 1, 1, 0, 1)$	Solvable	7	$P_7(1, 0, 0, 3, 0, 0, 1)$	Solvable	7
$P_6(1, 2, 1, 0, 1, 1)$	Freely	7	$P_7(2, 1, 0, 0, 0, 0, 2)$	Distance 2	6
$P_6(1, 2, 0, 1, 1, 1)$	Solvable	7	$P_7(2, 0, 1, 0, 0, 0, 2)$	3-Solvable	7
$P_6(1, 1, 2, 1, 0, 1)$	Freely	7	$P_7(2, 0, 0, 1, 0, 0, 2)$	2-Solvable	6
$P_6(1, 1, 2, 0, 1, 1)$	Solvable	7	$P_7(2, 2, 0, 0, 0, 0, 1)$	Solvable	7
$P_6(1, 1, 1, 2, 0, 1)$	Freely	7	$P_7(2, 0, 2, 0, 0, 0, 1)$	3-Solvable	7
$P_6(1, 1, 1, 1, 1, 1)$	Freely	6	$P_7(2, 0, 0, 2, 0, 0, 1)$	Solvable	7
$P_7(1, 0, 0, 0, 0, 0, 0, 1)$	Distance 2	4	$P_7(2, 0, 0, 0, 2, 0, 1)$	3-Solvable	7
$P_7(2, 0, 0, 0, 0, 0, 0, 1)$	Distance 2	5	$P_7(2, 0, 0, 0, 0, 2, 1)$	Solvable	7
$P_7(1, 1, 0, 0, 0, 0, 0, 1)$	Solvable	5	$P_7(2, 1, 1, 0, 0, 0, 0, 1)$	Distance 2	6
$P_7(1, 0, 1, 0, 0, 0, 0, 1)$	2-Solvable	5	$P_7(2, 1, 0, 1, 0, 0, 0, 1)$	Solvable	7
$P_7(1, 0, 0, 1, 0, 0, 0, 1)$	Distance 2	5	$P_7(2, 1, 0, 0, 1, 0, 0, 1)$	2-Solvable	6
$P_7(3, 0, 0, 0, 0, 0, 0, 1)$	3-Solvable	6	$P_7(2, 1, 0, 0, 0, 1, 1)$	Solvable	7
$P_7(2, 0, 0, 0, 0, 0, 0, 2)$	3-Solvable	6	$P_7(2, 0, 1, 1, 0, 0, 0, 1)$	Distance 2	6
$P_7(2, 1, 0, 0, 0, 0, 0, 1)$	Distance 2	6	$P_7(2, 0, 1, 0, 1, 0, 0, 1)$	3-Solvable	7
$P_7(2, 0, 1, 0, 0, 0, 0, 1)$	2-Solvable	6	$P_7(2, 0, 1, 0, 0, 1, 1)$	Distance 2	6
$P_7(2, 0, 0, 1, 0, 0, 0, 1)$	Distance 2	6	$P_7(2, 0, 0, 1, 1, 0, 0, 1)$	Solvable	6
$P_7(2, 0, 0, 0, 1, 0, 0, 1)$	3-Solvable	6	$P_7(2, 0, 0, 1, 0, 1, 1)$	Solvable	7
$P_7(2, 0, 0, 0, 0, 1, 0, 1)$	Solvable	6	$P_7(2, 0, 0, 0, 1, 1, 1)$	Distance 2	6
$P_7(1, 2, 0, 0, 0, 0, 0, 1)$	Solvable	6	$P_7(1, 2, 1, 0, 0, 0, 0, 1)$	Solvable	6

Caterpillar	Solvability	$F_s(G)$	Caterpillar	Solvability	$F_s(G)$
$P_7(1, 2, 0, 1, 0, 0, 1)$	Solvable	7	$P_8(2, 0, 0, 1, 0, 0, 0, 1)$	Distance 2	7
$P_7(1, 2, 0, 0, 1, 0, 1)$	Solvable	6	$P_8(2, 0, 0, 0, 1, 0, 0, 1)$	Solvable	7
$P_7(1, 2, 0, 0, 0, 1, 1)$	Solvable	7	$P_8(2, 0, 0, 0, 0, 1, 0, 1)$	Distance 2	7
$P_7(1, 0, 2, 1, 0, 0, 1)$	Distance 2	6	$P_8(2, 0, 0, 0, 0, 0, 1, 1)$	Distance 2	7
$P_7(1, 0, 2, 0, 1, 0, 1)$	Distance 2	7	$P_8(1, 2, 0, 0, 0, 0, 0, 1)$	Distance	2
$P_7(1, 0, 2, 0, 0, 1, 1)$	Solvable	6	$P_8(1, 0, 2, 0, 0, 0, 0, 1)$	Solvable	7
$P_7(1, 0, 0, 2, 1, 0, 1)$	Solvable	6	$P_8(1, 0, 0, 2, 0, 0, 0, 1)$	Solvable	7
$P_7(1, 0, 0, 2, 0, 1, 1)$	Solvable	7	$P_8(1, 1, 1, 0, 0, 0, 0, 1)$	Solvable	6
$P_7(1, 0, 0, 0, 2, 1, 1)$	Distance 2	6	$P_8(1, 1, 0, 1, 0, 0, 0, 1)$	Distance 2	7
$P_7(1, 1, 1, 1, 0, 0, 1)$	Freely	6	$P_8(1, 1, 0, 0, 1, 0, 0, 1)$	Solvable	6
$P_7(1, 1, 1, 0, 1, 0, 1)$	Solvable	6	$P_8(1, 1, 0, 0, 0, 1, 0, 1)$	Solvable	7
$P_7(1, 1, 1, 0, 0, 1, 1)$	Solvable	6	$P_8(1, 1, 0, 0, 0, 0, 1, 1)$	Freely	6
$P_7(1, 1, 0, 1, 0, 1, 1)$	Freely	7	$P_8(1, 0, 1, 1, 0, 0, 0, 1)$	Solvable	6
$P_7(1, 0, 1, 1, 1, 0, 1)$	Distance 2	6	$P_8(1, 0, 1, 0, 1, 0, 0, 1)$	Solvable	7
$P_8(1, 0, 0, 0, 0, 0, 0, 1)$	Solvable	5	$P_8(1, 0, 1, 0, 0, 1, 0, 1)$	2-Solvable	6
$P_8(2, 0, 0, 0, 0, 0, 0, 0, 1)$	Solvable	6	$P_8(1, 0, 0, 1, 1, 0, 0, 1)$	Solvable	6
$P_8(1, 1, 0, 0, 0, 0, 0, 0, 1)$	Solvable	6	$P_9(1, 0, 0, 0, 0, 0, 0, 0, 0, 1)$	Distance 2	5
$P_8(1, 0, 1, 0, 0, 0, 0, 0, 1)$	Distance 2	6	$P_9(2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1)$	Distance 2	6
$P_8(1, 0, 0, 1, 0, 0, 0, 0, 1)$	Solvable	6	$P_9(1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1)$	Solvable	6
$P_8(3, 0, 0, 0, 0, 0, 0, 0, 0, 1)$	Distance 2	7	$P_9(1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1)$	2-Solvable	6
$P_8(2, 0, 0, 0, 0, 0, 0, 0, 0, 2)$	Solvable	7	$P_9(1, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1)$	Distance 2	6
$P_8(2, 1, 0, 0, 0, 0, 0, 0, 0, 1)$	Solvable	7	$P_9(1, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1)$	2-Solvable	6
$P_8(2, 0, 1, 0, 0, 0, 0, 0, 0, 1)$	Distance 2	7	$P_{10}(1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1)$	Solvable	6