

Table 2: The parent of some nodes $x \in V(CQ_6)$ in T_1 rooted at $r = 011011_2 = 27$.

$$N_1(27) = 011001_2 = 25$$

$$\bar{N}_1(27) = 011011_2 = 27$$

x	x'	$I_1(x)$	$I_1(x')$	$\alpha_1(x)$	$H_1(x)$	$j = \text{NEXT}(1, x)$	$\text{PARENT}(T_1, x)$
(0) 000000	000000	{3, 4}	{3, 4}	2	{0, 3, 4}	0	$= N_0(0) = 000001$ (1)
(1) 000001	000011	{3, 4}	{3, 4}	2	{3, 4}	4	$= N_4(1) = 010011$ (19)
(2) 000010	000010	{3, 4}	{3, 4}	2	{0, 1, 3, 4}	1	$= N_1(2) = 000000$ (0)
(3) 000011	000001	{3, 4}	{3, 4}	2	{1, 3, 4}	1	$= N_1(3) = 000001$ (1)
(4) 000100	001100	{2, 3, 4}	{2, 4}	2	{0, 2, 3, 4}	0	$= N_0(4) = 000101$ (5)
(5) 000101	001111	{2, 3, 4}	{2, 4}	2	{2, 3, 4}	4	$= N_4(5) = 011111$ (31)
(6) 000110	001110	{2, 3, 4}	{2, 4}	2	{0, 1, 2, 3, 4}	1	$= N_1(6) = 000100$ (4)
(7) 000111	001101	{2, 3, 4}	{2, 4}	2	{1, 2, 3, 4}	1	$= N_1(7) = 000101$ (5)
(8) 001000	001000	{4}	{4}	1	{0, 1, 4}	1	$= N_1(8) = 001010$ (10)
(9) 001001	001011	{4}	{4}	1	{1, 4}	1	$= N_1(9) = 001011$ (11)
(10) 001010	001010	{4}	{4}	1	{0, 4}	0	$= N_0(10) = 001011$ (11)
(11) 001011	001001	{4}	{4}	1	{4}	4	$= N_4(11) = 011001$ (25)
(12) 001100	000100	{2, 4}	{2, 3, 4}	3	{0, 1, 2, 4}	1	$= N_1(12) = 001110$ (14)
(13) 001101	000111	{2, 4}	{2, 3, 4}	3	{1, 2, 4}	1	$= N_1(13) = 001111$ (15)
(14) 001110	000110	{2, 4}	{2, 3, 4}	3	{0, 2, 4}	0	$= N_0(14) = 001111$ (15)
(15) 001111	000101	{2, 4}	{2, 3, 4}	3	{2, 4}	4	$= N_4(15) = 010101$ (21)
(16) 010000	110000	{3}	{3, 5}	1	{0, 1, 3}	1	$= N_1(16) = 010010$ (18)
(17) 010001	110011	{3}	{3, 5}	1	{1, 3}	1	$= N_1(17) = 010011$ (19)
(18) 010010	110010	{3}	{3, 5}	1	{0, 3}	0	$= N_0(18) = 010011$ (19)
(19) 010011	110001	{3}	{3, 5}	1	{3}	3	$= N_3(19) = 011001$ (25)
(20) 010100	111100	{2, 3}	{2, 5}	2	{0, 2, 3}	0	$= N_0(20) = 010101$ (21)
(21) 010101	111111	{2, 3}	{2, 5}	2	{2, 3}	3	$= N_3(21) = 011111$ (31)
(22) 010110	111110	{2, 3}	{2, 5}	2	{0, 1, 2, 3}	1	$= N_1(22) = 010100$ (20)
(23) 010111	111101	{2, 3}	{2, 5}	2	{1, 2, 3}	1	$= N_1(23) = 010101$ (21)
(24) 011000	111000	{}	{5}	0	{0}	0	$= N_0(24) = 011001$ (25)
(25) 011001	111011	{}	{5}	0	{}	1	$= N_1(25) = 011011$ (27)
(26) 011010	111010	{}	{5}	0	{0, 1}	1	$= N_1(26) = 011000$ (24)
(27) 011011	-	-	-	-	-	-	- (root)
(28) 011100	110100	{2}	{2, 3, 5}	1	{0, 1, 2}	1	$= N_1(28) = 011110$ (30)
(29) 011101	110111	{2}	{2, 3, 5}	1	{1, 2}	1	$= N_1(29) = 011111$ (31)
(30) 011110	110110	{2}	{2, 3, 5}	1	{0, 2}	0	$= N_0(30) = 011111$ (31)
(31) 011111	110101	{2}	{2, 3, 5}	1	{2}	2	$= N_2(31) = 011001$ (25)
(32) 100000	100000	{3, 4, 5}	{3, 4, 5}	3	{0, 1, 3, 4, 5}	1	$= N_1(32) = 100010$ (34)
(33) 100001	100011	{3, 4, 5}	{3, 4, 5}	3	{1, 3, 4, 5}	1	$= N_1(33) = 100011$ (35)
(34) 100010	100010	{3, 4, 5}	{3, 4, 5}	3	{0, 3, 4, 5}	0	$= N_0(34) = 100011$ (35)
(35) 100011	100001	{3, 4, 5}	{3, 4, 5}	3	{3, 4, 5}	5	$= N_5(35) = 000001$ (1)
(36) 100100	101100	{2, 3, 4, 5}	{2, 4, 5}	4	{0, 2, 3, 4, 5}	0	$= N_0(36) = 100101$ (37)
(37) 100101	101111	{2, 3, 4, 5}	{2, 4, 5}	4	{2, 3, 4, 5}	5	$= N_5(37) = 001111$ (15)
(38) 100110	101110	{2, 3, 4, 5}	{2, 4, 5}	4	{0, 1, 2, 3, 4, 5}	1	$= N_1(38) = 100100$ (36)
(39) 100111	101101	{2, 3, 4, 5}	{2, 4, 5}	4	{1, 2, 3, 4, 5}	1	$= N_1(39) = 100101$ (37)
(40) 101000	101000	{4, 5}	{4, 5}	2	{0, 4, 5}	0	$= N_0(40) = 101001$ (41)
(41) 101001	101011	{4, 5}	{4, 5}	2	{4, 5}	5	$= N_5(41) = 001011$ (11)
(42) 101010	101010	{4, 5}	{4, 5}	2	{0, 1, 4, 5}	1	$= N_1(42) = 101000$ (40)
(43) 101011	101001	{4, 5}	{4, 5}	2	{1, 4, 5}	1	$= N_1(43) = 101001$ (41)
(44) 101100	100100	{2, 4, 5}	{2, 3, 4, 5}	3	{0, 1, 2, 4, 5}	1	$= N_1(44) = 101110$ (46)
(45) 101101	100111	{2, 4, 5}	{2, 3, 4, 5}	3	{1, 2, 4, 5}	1	$= N_1(45) = 101111$ (47)
(46) 101110	100110	{2, 4, 5}	{2, 3, 4, 5}	3	{0, 2, 4, 5}	0	$= N_0(46) = 101111$ (47)
(47) 101111	100101	{2, 4, 5}	{2, 3, 4, 5}	3	{2, 4, 5}	5	$= N_5(47) = 000101$ (5)
(48) 110000	010000	{3, 5}	{3}	2	{0, 3, 5}	0	$= N_0(48) = 110001$ (49)
(49) 110001	010011	{3, 5}	{3}	2	{3, 5}	5	$= N_5(49) = 010011$ (19)
(50) 110010	010010	{3, 5}	{3}	2	{0, 1, 3, 5}	1	$= N_1(50) = 110000$ (48)
(51) 110011	010001	{3, 5}	{3}	2	{1, 3, 5}	1	$= N_1(51) = 110001$ (49)
(52) 110100	011100	{2, 3, 5}	{2}	2	{0, 2, 3, 5}	0	$= N_0(52) = 110101$ (53)
(53) 110101	011111	{2, 3, 5}	{2}	2	{2, 3, 5}	5	$= N_5(53) = 011111$ (31)
(54) 110110	011110	{2, 3, 5}	{2}	2	{0, 1, 2, 3, 5}	1	$= N_1(54) = 110100$ (52)
(55) 110111	011101	{2, 3, 5}	{2}	2	{1, 2, 3, 5}	1	$= N_1(55) = 110101$ (53)
(56) 111000	011000	{5}	{}	1	{0, 1, 5}	1	$= N_1(56) = 111010$ (58)
(57) 111001	011011	{5}	{}	1	{1, 5}	1	$= N_1(57) = 111011$ (59)
(58) 111010	011010	{5}	{}	1	{0, 5}	0	$= N_0(58) = 111011$ (59)
(59) 111011	011001	{5}	{}	1	{5}	5	$= N_5(59) = 011001$ (25)
(60) 111100	010100	{2, 5}	{2, 3}	3	{0, 1, 2, 5}	1	$= N_1(60) = 111110$ (62)
(61) 111101	010111	{2, 5}	{2, 3}	3	{1, 2, 5}	1	$= N_1(61) = 111111$ (63)
(62) 111110	010110	{2, 5}	{2, 3}	3	{0, 2, 5}	0	$= N_0(62) = 111111$ (63)
(63) 111111	010101	{2, 5}	{2, 3}	3	{2, 5}	5	$= N_5(63) = 010101$ (21)