## id:4 level: 0 17: C0 C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16

136: C0 = C1(C0C1)C0 = C2(C0C2)C0 = C3(C0C3)C0 = C4(C0C4)C0 = C5(C0C5)CO = C6(C0C6)C0 = C7(C0C7)C0 = C8(C0C8)C0 = C9(C0C9)C0 = C10(C0C10)C0 = C11(C0C11) $CO = \overline{C}1\overline{2}(CO C12)CO = \overline{C}13(CO C13)C\overline{O} = C14(CO C14)\overline{C}\overline{O} = C15(CO C15)\overline{C}O = C16(CO C16)\overline{C}O = C2(C1 C2)$  $\overline{C1} = C3(C1C3)\overline{C1} = C4(C1C4)\overline{C1} = C5(C1C5)C1 = \overline{C6}(C1C6)C1 = \overline{C7}(C1C7)C1 = C8(\overline{C1C8})$ C1 = C9(C1C9)C1 = C10(C1C10)C1 = C11(C1C11)C1 = C12(C1C12)C1 = C13(C1C13)C1 = C14(C1C14) $C\overline{1} = C15(C1C15)C1 = C16(C1C16)C2 = C3(C2C3)C\overline{2} = C4(C2C4)C\overline{2} = C5(C2C5)C2 = \overline{C}6(C2C6)$  $C2 = \overline{C7}(C2C7)C2 = \overline{C8}(C2C8)C2 = C9(\overline{C2}C9)C2 = C10(\overline{C2}C10)C2 = \overline{C11}(C2C11)C2 = \overline{C12}(C2C12)$  $C2 = \overline{C}13(C2C13)C\overline{2} = C14(C2C14)\overline{C2} = C15(C2C15)\overline{C2} = C16(C2C16)\overline{C3} = C4(C3C4)\overline{C3} = C5(C3C5)$  $\overline{C3} = C6(C3C6)C3 = C7(C3C7)C3 = \overline{C8}(C3C8)C3 = \overline{C9}(\overline{C3C9})C3 = C10(\overline{C3C10})C3 = \overline{C11}(\overline{C3C11})$  $C3 = \overline{C}1\overline{2}(C3C12)C3 = \overline{C}13(C3C13)C\overline{3} = C14(C3C14)\overline{C}\overline{3} = C15(C3C15)\overline{C}3 = C16(C3C16)\overline{C}4 = C5(C4C5)$  $C\overline{4} = C6(C4C6)C\overline{4} = C7(C4C7)C4 = \overline{C8}(C4C8)C4 = \overline{C9}(C4C9)C4 = C1\overline{0}(\overline{C4C10})C4 = C1\overline{1}(\overline{C4C11})$  $C4 = \overline{C}1\overline{2}(C4C12)C4 = \overline{C}13(C4C13)C\overline{4} = C14(C4C14)\overline{C}\overline{4} = C15(C4C15)\overline{C}4 = C16(C4C16)\overline{C}5 = C6(C5C6)$  $\overline{C5} = C7(C5C7)C5 = C8(C5C8)C5 = \overline{C9}(C5C9)C5 = \overline{C10}(C5C10)C5 = \overline{C11}(C5C11)C5 = \overline{C12}(C5C12)$  $C5 = \overline{C}13(C5C13)C\overline{5} = C14(C5C14)\overline{C}\overline{5} = C15(C5C15)\overline{C}5 = C16(C5C16)\overline{C}6 = C7(C6C7)\overline{C}6 = C8(C6C8)$  $C6 = \overline{C}9(C6C9)C6 = \overline{C}1\overline{0}(C6C10)C6 = \overline{C}1\overline{1}(C6C11)C6 = \overline{C}1\overline{2}(C6C12)C6 = \overline{C}1\overline{3}(C6C13)C6 = \overline{C}14(C6C14)$  $C\overline{6} = C\overline{15}(C6C\overline{15})C\overline{6} = C\overline{16}(C6C\overline{16})C\overline{7} = C\overline{8}(C7C\overline{8})C\overline{7} = C\overline{9}(C7C\overline{9})C7 = \overline{C}10(C7C\overline{10})C7 = \overline{C}11(C7C\overline{11})$  $C7 = \overline{C}12(C7 C12)C7 = \overline{C}13(C7 C13)C7 = \overline{C}14(C7 C14)C7 = C15(C7 C15)\overline{C7} = C16(C7 C16)\overline{C8} = C9(C8 C9)$  $C8 = \overline{C}10(C8C10)C8 = \overline{C}11(C8C11)C8 = \overline{C}12(C8C12)C8 = \overline{C}13(C8C13)C8 = \overline{C}14(C8C14)C8 = \overline{C}15(C8C15)$ C8 = C16(C8C16)C9 = C10(C9C10)C9 = C11(C9C11)C9 = C12(C9C12)C9 = C13(C9C13)C9 = C14(C9C14) $C9 = C\overline{1}5(C9 C15) C9 = C\overline{1}6(C9 C16) C10 = \overline{C}1\overline{1}(C10 C11) C10 = \overline{C}12(C10 C12) C10 = C13(C10 C13) \overline{C}10 = C14(C10 C14)$  $C10 = \overline{C}15(C10C15)C1\overline{0} = C16(C10C16)C\overline{1}1 = C12(C11C12)C\overline{1}1 = C13(C11C13)C\overline{1}1 = C14(C11C14)C\overline{1}1 = C15(C11C15)$ C11 = C16(C11C16)C12 = C13(C12C13)C12 = C14(C12C14)C12 = C15(C12C15)C12 = C16(C12C16)C13 = C14(C13C14) $C13 = C15(C1\bar{3}C\bar{1}5)C13 = C16(C1\bar{3}C\bar{1}6)C14 = C15(C1\bar{4}C\bar{1}5)C14 = C16(C1\bar{4}C\bar{1}6)C15 = C16(C1\bar{5}C\bar{1}6)$ 

## 16: C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16

120: C1 = C2, C1 = C3, C1 = C4, C1 = C5, C1 = C6C1 = C7,  $C\bar{1} = C8$ ,  $C\bar{1} = C9$ ,  $C\bar{1} = C10$ ,  $\bar{C}\bar{1} = C11$ ,  $C1_{-} = C12$ , C1 = C13, C1 = C14, C1 = C15, C1 = C16, C2 = C3, C2 = C4, C2 = C5, C2 = C6, C2 = C7, C2 = C8, C2 = C9, C2 = C10 $C2 = \overline{C11}$ ,  $C2 = \overline{C12}$ ,  $C2 = \overline{C13}$ ,  $C2 = \overline{C14}$ ,  $\overline{C2} = \overline{C15}$ ,  $\overline{C2} = \overline{C16}$ , C3 = C4, C3 = C5, C3 = C6, C3 = C7, C3 = C8, C3 = C9 $C3 = \overline{C10}$ ,  $C3 = \overline{C11}$ ,  $C3 = \overline{C12}$ ,  $C3 = \overline{C13}$ ,  $C3 = \overline{C14}$ ,  $\overline{C3} = \overline{C15}$ , C3 = C16, C4 = C5, C4 = C6, C4 = C7, C4 = C8, C4 = C9 $C4 = \overline{C10}$ ,  $C4 = \overline{C11}$ ,  $C4 = \overline{C12}$ ,  $C4 = \overline{C13}$ ,  $C4 = \overline{C14}$ ,  $\overline{C4} = \overline{C15}$ ,  $\overline{C4} = C16$ ,  $\overline{C5} = C6$ ,  $\overline{C5} = C7$ ,  $\overline{C5} = C8$ ,  $\overline{C5} = \overline{C9}$ ,  $\overline{C5} = \overline{C10}$  $C5 = \overline{C11}$ ,  $C5 = \overline{C12}$ ,  $C5 = \overline{C13}$ ,  $C5 = \overline{C14}$ ,  $C\overline{5} = \overline{C15}$ ,  $\overline{C5} = \overline{C16}$ , C6 = C7, C6 = C8, C6 = C9, C6 = C10, C6 = C11, C6 = C12, C6 = C13, C6 = C14, C6 = C15, C6 = C16, C7 = C8, C7 = C9,  $C7 = \overline{C}10$ ,  $C7 = \overline{C}11$ ,  $C7 = \overline{C}12$ ,  $C7 = \overline{C}13$ ,  $C7 = \overline{C}14$ ,  $C7 = \overline{C}15$ , C7 = C16, C8 = C9, C8 = C10, C8 = C11, C8 = C12, C8 = C13, C8 = C14, C8 = C15, C8 = C16, C9 = C10, C9 = C11, C9 = C12,  $C9 = \overline{C}13$ ,  $C9 = \overline{C}14$ ,  $C9 = \overline{C}15$ ,  $C9 = \overline{C}16$ ,  $C10 = \overline{C}11$ ,  $C10 = \overline{C}12$  $C10 = \overline{C}13$ ,  $C10 = \overline{C}14$ ,  $C10 = \overline{C}15$ ,  $\overline{C}10 = \overline{C}16$ ,  $\overline{C}11 = \overline{C}12$ ,  $\overline{C}11 = \overline{C}13$ , , C15 = C12, C11 = C16, C12 = C13, C12 = C14, C12 = C15, C15 (C15 = C15, C15 = C16, C15 = C16, C16 = C16, C16 , C14 = C16, C13 = C14, C13 = C15, C13 = C16, C14 = C15, C14 = C16, C15 = C16,

## id:5 level: 1 17: C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17

C12 C13 C14 C15 C16 C17 136: C1 = C2(C1 C2) C1 = C3(C1 C3) C1 = C4(C1 C4) C1 = C5(C1 C5) C1 = C6(C1 C6)C1 = C7(C1C7)C1 = C8(C1C8)C1 = C9(C1C9)C1 = C10(C1C10)C1 = C11(C1C11)C1 = C12(C1C12)C1 = C13(C1 C13)C1 = C14(C1 C14)C1 = C15(C1 C15)C1 = C16(C1 C16)C1 = C17(C1 C17)C2 = C3(C2 C3)C2 = C4(C2C4)C2 = C5(C2C5)C2 = C6(C2C6)C2 = C7(C2C7)C2 = C8(C2C8)C2 = C9(C2C9)C2 = C10(C2C10)C2 = C11(C2C11)C2 = C12(C2C12)C2 = C13(C2C13)C2 = C14(C2C14)C2 = C15(C2C15) $\bar{C}2 = C16(C2C16)\bar{C}2 = C17(C2C17)\bar{C}3 = C4(C3C4)\bar{C}3 = C5(C3C5)C3 = C6(C3C6)C3 = C7(C3C7)$  $C3 = \overline{C8}(C3C8)C3 = \overline{C9}(\overline{C3}C9)C3 = C10(\overline{C3}C10)C3 = \overline{C11}(C3C11)C3 = \overline{C12}(C3C12)C3 = \overline{C13}(C3C13)$ C3 = C14(C3C14)C3 = C15(C3C15)C3 = C16(C3C16)C3 = C17(C3C17)C4 = C5(C4C5)C4 = C6(C4C6)C4 = C7(C4C7)C4 = C8(C4C8)C4 = C9(C4C9)C4 = C10(C4C10)C4 = C11(C4C11)C4 = C12(C4C12)C4 = C13(C4C13)C4 = C14(C4C14)C4 = C15(C4C15)C4 = C16(C4C16)C4 = C17(C4C17)C5 = C6(C5C6)C5 = C7(C5C7)C5 = C8(C5C8)C5 = C9(C5C9)C5 = C10(C5C10)C5 = C11(C5C11)C5 = C12(C5C12)C5 = C13(C5C13)C5 = C14(C5C14)C5 = C15(C5C15)C5 = C16(C5C16)C5 = C17(C5C17)C6 = C7(C6C7)C6 = C8(C6C8)C6 = C9(C6C9)C6 = C10(C6C10)C6 = C11(C6C11)C6 = C12(C6C12)C6 = C13(C6C13) $C6 = C14(C6C14)\overline{C6} = C15(C6C15)\overline{C6} = C16(C6C16)\overline{C6} = C17(C6C17)\overline{C7} = C8(C7C8)\overline{C7} = C9(C7C9)$  $C7 = \overline{C10}(C7 C10)C7 = \overline{C11}(C7 C11)C7 = \overline{C12}(C7 C12)C7 = \overline{C13}(C7 C13)C7 = \overline{C14}(C7 C14)C7 = \overline{C15}(C7 C15)$ C7 = C16(C7C16)C7 = C17(C7C17)C8 = C9(C8C9)C8 = C10(C8C10)C8 = C11(C8C11)C8 = C12(C8C12)C8 = C13(C8C13)C8 = C14(C8C14)C8 = C15(C8C15)C8 = C16(C8C16)C8 = C17(C8C17)C9 = C10(C9C10)C9 = C11(C9C11)C9 = C12(C9C12)C9 = C13(C9C13)C9 = C14(C9C14)C9 = C15(C9C15)C9 = C16(C9C16)C9 = C17(C9C17)C10 = C11(C10C11)C10 = C12(C10C12)C10 = C13(C10C13)C10 = C14(C10C14)C10 = C15(C10C15)C10 = C16(C10C16)C10 = C17(C10C17)C11 = C12(C11C12)C11 = C13(C11C13)C11 = C14(C11C14)C11 = C15(C11C15)C11 = C16(C11C16)C11 = C17(C11C17)C12 = C13(C12C13)C12 = C14(C12C14)C12 = C15(C12C15)C12 = C16(C12C16)C12 = C17(C12C17)C13 = C14(C13C14)C13 = C15(C13C15)C13 = C16(C13C16)C13 = C17(C13C17)C14 = C15(C14C15)C14 = C16(C14C16)C14 = C17(C14C17)C15 = C16(C15C16)C15 = C17(C15C17)C16 = C17(C16C17)