

Reference wave function in GVB-BCCC formula derivation

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September 3, 2019

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To derive the GVB-BCCC formula, all possible excited states need to be constructed firstly.

For N blocks system, the number of wavefunction state is

$$1C_0^N + 3C_1^N + 29C_2^N + 303C_3^N + 3501C_4^N$$

including 1 ground state, and other states are excited one.

In particular, For N-block ($N \leq 4$) system, the number of wavefunction state can be simply recorded as $(C_{2N}^N)^2$.

Ground state wavefunction:

$$\Phi_{()}$$

Excited state wavefunction:

For 1-block excitation, there are $3C_1^N$ excited types:

$$\Phi_{(A_1,)}$$

$$\Phi_{(A_2,)}$$

$$\Phi_{(A_3,)}$$

For 2-block excitation, there are $29C_2^N$ excited types:

$$\Phi_{(A_1,B_1)}$$

$$\Phi_{(A_1,B_2)}$$

$$\Phi_{(A_1,B_3)}$$

$$\Phi_{(A_2,B_1)}$$

$$\Phi_{(A_2,B_2)}$$

$$\Phi_{(A_2,B_3)}$$

$$\Phi_{(A_3,B_1)}$$

$$\Phi_{(A_3,B_2)}$$

$$\Phi_{(A_3,B_3)}$$

$$\Phi_{(A_4,B_5)}$$

$$\Phi_{(A_5,B_4)}$$

$$\Phi_{(A_6,B_{15})}$$

$$\Phi_{(A_7, B_{13})}$$

$$\Phi_{(A_7, B_{14})}$$

$$\Phi_{(A_8, B_{13})}$$

$$\Phi_{(A_8, B_{14})}$$

$$\Phi_{(A_9, B_{11})}$$

$$\Phi_{(A_9, B_{12})}$$

$$\Phi_{(A_{10}, B_{11})}$$

$$\Phi_{(A_{10}, B_{12})}$$

$$\Phi_{(A_{11}, B_9)}$$

$$\Phi_{(A_{11}, B_{10})}$$

$$\Phi_{(A_{12}, B_9)}$$

$$\Phi_{(A_{12}, B_{10})}$$

$$\Phi_{(A_{13}, B_7)}$$

$$\Phi_{(A_{13}, B_8)}$$

$$\Phi_{(A_{14}, B_7)}$$

$$\Phi_{(A_{14}, B_8)}$$

$$\Phi_{(A_{15}, B_6)}$$

For 3-block excitation, there are $303C_3^N$ excited types:

$$\Phi_{(A_1, B_1, C_1)}$$

$$\Phi_{(A_1, B_1, C_2)}$$

$$\Phi_{(A_1, B_1, C_3)}$$

$$\Phi_{(A_1, B_2, C_1)}$$

$$\Phi_{(A_1, B_2, C_2)}$$

$$\Phi_{(A_1, B_2, C_3)}$$

$$\Phi_{(A_1, B_3, C_1)}$$

$$\Phi_{(A_1, B_3, C_2)}$$

$$\Phi_{(A_1, B_3, C_3)}$$

$$\Phi_{(A_1, B_4, C_5)}$$

$$\Phi_{(A_1, B_5, C_4)}$$

$$\Phi_{(A_1, B_6, C_{15})}$$

$$\Phi_{(A_1, B_7, C_{13})}$$

$$\Phi_{(A_1, B_7, C_{14})}$$

$$\Phi_{(A_1, B_8, C_{13})}$$

$$\Phi_{(A_1, B_8, C_{14})}$$

$$\Phi_{(A_1, B_9, C_{11})}$$

$$\Phi_{(A_1, B_9, C_{12})}$$

$$\Phi_{(A_1, B_{10}, C_{11})}$$

$$\Phi_{(A_1, B_{10}, C_{12})}$$

$$\Phi_{(A_1, B_{11}, C_9)}$$

$$\Phi_{(A_1, B_{11}, C_{10})}$$

$$\Phi_{(A_1, B_{12}, C_9)}$$

$$\Phi_{(A_1, B_{12}, C_{10})}$$

$$\Phi_{(A_1, B_{13}, C_7)}$$

$$\Phi_{(A_1, B_{13}, C_8)}$$

$$\Phi_{(A_1, B_{14}, C_7)}$$

$$\Phi_{(A_1, B_{14}, C_8)}$$

$$\Phi_{(A_1, B_{15}, C_6)}$$

$$\Phi_{(A_2, B_1, C_1)}$$

$$\Phi_{(A_2, B_1, C_2)}$$

$$\Phi_{(A_2, B_1, C_3)}$$

$$\Phi_{(A_2, B_2, C_1)}$$

$$\Phi_{(A_2, B_2, C_2)}$$

$$\Phi_{(A_2, B_2, C_3)}$$

$$\Phi_{(A_2, B_3, C_1)}$$

$$\Phi_{(A_2, B_3, C_2)}$$

$$\Phi_{(A_2, B_3, C_3)}$$

$$\Phi_{(A_2, B_4, C_5)}$$

$$\Phi_{(A_2, B_5, C_4)}$$

$$\Phi_{(A_2, B_6, C_{15})}$$

$$\Phi_{(A_2, B_7, C_{13})}$$

$$\Phi_{(A_2, B_7, C_{14})}$$

$$\Phi_{(A_2, B_8, C_{13})}$$

$$\Phi_{(A_2, B_8, C_{14})}$$

$$\Phi_{(A_2, B_9, C_{11})}$$

$$\Phi_{(A_2, B_9, C_{12})}$$

$$\Phi_{(A_2, B_{10}, C_{11})}$$

$$\Phi_{(A_2, B_{10}, C_{12})}$$

$$\Phi_{(A_2, B_{11}, C_9)}$$

$$\Phi_{(A_2, B_{11}, C_{10})}$$

$$\Phi_{(A_2, B_{12}, C_9)}$$

$$\Phi_{(A_2, B_{12}, C_{10})}$$

$$\Phi_{(A_2, B_{13}, C_7)}$$

$$\Phi_{(A_2, B_{13}, C_8)}$$

$$\Phi_{(A_2, B_{14}, C_7)}$$

$$\Phi_{(A_2, B_{14}, C_8)}$$

$$\Phi_{(A_2, B_{15}, C_6)}$$

$$\Phi_{(A_3, B_1, C_1)}$$

$$\Phi_{(A_3, B_1, C_2)}$$

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$$\Phi_{(A_3, B_2, C_2)}$$

$$\Phi_{(A_3, B_2, C_3)}$$

$$\Phi_{(A_3, B_3, C_1)}$$

$$\Phi_{(A_3, B_3, C_2)}$$

$$\Phi_{(A_3, B_3, C_3)}$$

$$\Phi_{(A_3, B_4, C_5)}$$

$$\Phi_{(A_3,B_5,C_4)}$$

$$\Phi_{(A_3,B_6,C_{15})}$$

$$\Phi_{(A_3,B_7,C_{13})}$$

$$\Phi_{(A_3,B_7,C_{14})}$$

$$\Phi_{(A_3,B_8,C_{13})}$$

$$\Phi_{(A_3,B_8,C_{14})}$$

$$\Phi_{(A_3,B_9,C_{11})}$$

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$$\Phi_{(A_3,B_{10},C_{11})}$$

$$\Phi_{(A_3,B_{10},C_{12})}$$

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$$\Phi_{(A_3,B_{11},C_{10})}$$

$$\Phi_{(A_3,B_{12},C_9)}$$

$$\Phi_{(A_3,B_{12},C_{10})}$$

$$\Phi_{(A_3,B_{13},C_7)}$$

$$\Phi_{(A_3,B_{13},C_8)}$$

$$\Phi_{(A_3,B_{14},C_7)}$$

$$\Phi_{(A_3,B_{14},C_8)}$$

$$\Phi_{(A_3,B_{15},C_6)}$$

$$\Phi_{(A_4,B_1,C_5)}$$

$$\Phi_{(A_4,B_2,C_5)}$$

$$\Phi_{(A_4,B_3,C_5)}$$

$$\Phi_{(A_4,B_5,C_1)}$$

$$\Phi_{(A_4,B_5,C_2)}$$

$$\Phi_{(A_4,B_5,C_3)}$$

$$\Phi_{(A_4,B_9,C_{13})}$$

$$\Phi_{(A_4,B_9,C_{14})}$$

$$\Phi_{(A_4,B_{10},C_{13})}$$

$$\Phi_{(A_4,B_{10},C_{14})}$$

$$\Phi_{(A_4, B_{13}, C_9)}$$

$$\Phi_{(A_4, B_{13}, C_{10})}$$

$$\Phi_{(A_4, B_{14}, C_9)}$$

$$\Phi_{(A_4, B_{14}, C_{10})}$$

$$\Phi_{(A_5, B_1, C_4)}$$

$$\Phi_{(A_5, B_2, C_4)}$$

$$\Phi_{(A_5, B_3, C_4)}$$

$$\Phi_{(A_5, B_4, C_1)}$$

$$\Phi_{(A_5, B_4, C_2)}$$

$$\Phi_{(A_5, B_4, C_3)}$$

$$\Phi_{(A_5, B_7, C_{11})}$$

$$\Phi_{(A_5, B_7, C_{12})}$$

$$\Phi_{(A_5, B_8, C_{11})}$$

$$\Phi_{(A_5, B_8, C_{12})}$$

$$\Phi_{(A_5, B_{11}, C_7)}$$

$$\Phi_{(A_5, B_{11}, C_8)}$$

$$\Phi_{(A_5, B_{12}, C_7)}$$

$$\Phi_{(A_5, B_{12}, C_8)}$$

$$\Phi_{(A_6, B_1, C_{15})}$$

$$\Phi_{(A_6, B_2, C_{15})}$$

$$\Phi_{(A_6, B_3, C_{15})}$$

$$\Phi_{(A_6, B_{11}, C_{13})}$$

$$\Phi_{(A_6, B_{11}, C_{14})}$$

$$\Phi_{(A_6, B_{12}, C_{13})}$$

$$\Phi_{(A_6, B_{12}, C_{14})}$$

$$\Phi_{(A_6, B_{13}, C_{11})}$$

$$\Phi_{(A_6, B_{13}, C_{12})}$$

$$\Phi_{(A_6, B_{14}, C_{11})}$$

$$\Phi_{(A_6, B_{14}, C_{12})}$$

$$\Phi_{(A_6, B_{15}, C_1)}$$

$$\Phi_{(A_6, B_{15}, C_2)}$$

$$\Phi_{(A_6, B_{15}, C_3)}$$

$$\Phi_{(A_7, B_1, C_{13})}$$

$$\Phi_{(A_7, B_1, C_{14})}$$

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$$\Phi_{(A_7, B_2, C_{14})}$$

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$$\Phi_{(A_7, B_3, C_{14})}$$

$$\Phi_{(A_7, B_5, C_{11})}$$

$$\Phi_{(A_7, B_5, C_{12})}$$

$$\Phi_{(A_7, B_9, C_{15})}$$

$$\Phi_{(A_7, B_{10}, C_{15})}$$

$$\Phi_{(A_7, B_{11}, C_5)}$$

$$\Phi_{(A_7, B_{12}, C_5)}$$

$$\Phi_{(A_7, B_{13}, C_1)}$$

$$\Phi_{(A_7, B_{13}, C_2)}$$

$$\Phi_{(A_7, B_{13}, C_3)}$$

$$\Phi_{(A_7, B_{14}, C_1)}$$

$$\Phi_{(A_7, B_{14}, C_2)}$$

$$\Phi_{(A_7, B_{14}, C_3)}$$

$$\Phi_{(A_7, B_{15}, C_9)}$$

$$\Phi_{(A_7, B_{15}, C_{10})}$$

$$\Phi_{(A_8, B_1, C_{13})}$$

$$\Phi_{(A_8, B_1, C_{14})}$$

$$\Phi_{(A_8, B_2, C_{13})}$$

$$\Phi_{(A_8, B_2, C_{14})}$$

$$\Phi_{(A_8, B_3, C_{13})}$$

$$\Phi_{(A_8, B_3, C_{14})}$$

$$\Phi_{(A_8, B_5, C_{11})}$$

$$\Phi_{(A_8, B_5, C_{12})}$$

$$\Phi_{(A_8, B_9, C_{15})}$$

$$\Phi_{(A_8, B_{10}, C_{15})}$$

$$\Phi_{(A_8, B_{11}, C_5)}$$

$$\Phi_{(A_8, B_{12}, C_5)}$$

$$\Phi_{(A_8, B_{13}, C_1)}$$

$$\Phi_{(A_8, B_{13}, C_2)}$$

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$$\Phi_{(A_9, B_2, C_{12})}$$

$$\Phi_{(A_9, B_3, C_{11})}$$

$$\Phi_{(A_9, B_3, C_{12})}$$

$$\Phi_{(A_9, B_4, C_{13})}$$

$$\Phi_{(A_9, B_4, C_{14})}$$

$$\Phi_{(A_9, B_7, C_{15})}$$

$$\Phi_{(A_9, B_8, C_{15})}$$

$$\Phi_{(A_9, B_{11}, C_1)}$$

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$$\Phi_{(A_{10}, B_2, C_{12})}$$

$$\Phi_{(A_{10}, B_3, C_{11})}$$

$$\Phi_{(A_{10}, B_3, C_{12})}$$

$$\Phi_{(A_{10}, B_4, C_{13})}$$

$$\Phi_{(A_{10}, B_4, C_{14})}$$

$$\Phi_{(A_{10}, B_7, C_{15})}$$

$$\Phi_{(A_{10}, B_8, C_{15})}$$

$$\Phi_{(A_{10}, B_{11}, C_1)}$$

$$\Phi_{(A_{10}, B_{11}, C_2)}$$

$$\Phi_{(A_{10}, B_{11}, C_3)}$$

$$\Phi_{(A_{10}, B_{12}, C_1)}$$

$$\Phi_{(A_{10}, B_{12}, C_2)}$$

$$\Phi_{(A_{10}, B_{12}, C_3)}$$

$$\Phi_{(A_{10}, B_{13}, C_4)}$$

$$\Phi_{(A_{10}, B_{14}, C_4)}$$

$$\Phi_{(A_{10}, B_{15}, C_7)}$$

$$\Phi_{(A_{10}, B_{15}, C_8)}$$

$$\Phi_{(A_{11}, B_1, C_9)}$$

$$\Phi_{(A_{11}, B_1, C_{10})}$$

$$\Phi_{(A_{11}, B_2, C_9)}$$

$$\Phi_{(A_{11}, B_2, C_{10})}$$

$$\Phi_{(A_{11},B_3,C_9)}$$

$$\Phi_{(A_{11},B_3,C_{10})}$$

$$\Phi_{(A_{11},B_5,C_7)}$$

$$\Phi_{(A_{11},B_5,C_8)}$$

$$\Phi_{(A_{11},B_6,C_{13})}$$

$$\Phi_{(A_{11},B_6,C_{14})}$$

$$\Phi_{(A_{11},B_7,C_5)}$$

$$\Phi_{(A_{11},B_8,C_5)}$$

$$\Phi_{(A_{11},B_9,C_1)}$$

$$\Phi_{(A_{11},B_9,C_2)}$$

$$\Phi_{(A_{11},B_9,C_3)}$$

$$\Phi_{(A_{11},B_{10},C_1)}$$

$$\Phi_{(A_{11},B_{10},C_2)}$$

$$\Phi_{(A_{11},B_{10},C_3)}$$

$$\Phi_{(A_{11},B_{13},C_6)}$$

$$\Phi_{(A_{11},B_{14},C_6)}$$

$$\Phi_{(A_{12},B_1,C_9)}$$

$$\Phi_{(A_{12},B_1,C_{10})}$$

$$\Phi_{(A_{12},B_2,C_9)}$$

$$\Phi_{(A_{12},B_2,C_{10})}$$

$$\Phi_{(A_{12},B_3,C_9)}$$

$$\Phi_{(A_{12},B_3,C_{10})}$$

$$\Phi_{(A_{12},B_5,C_7)}$$

$$\Phi_{(A_{12},B_5,C_8)}$$

$$\Phi_{(A_{12},B_6,C_{13})}$$

$$\Phi_{(A_{12},B_6,C_{14})}$$

$$\Phi_{(A_{12},B_7,C_5)}$$

$$\Phi_{(A_{12},B_8,C_5)}$$

$$\Phi_{(A_{12},B_9,C_1)}$$

$$\Phi_{(A_{12},B_9,C_2)}$$

$$\Phi_{(A_{12},B_9,C_3)}$$

$$\Phi_{(A_{12},B_{10},C_1)}$$

$$\Phi_{(A_{12},B_{10},C_2)}$$

$$\Phi_{(A_{12},B_{10},C_3)}$$

$$\Phi_{(A_{12},B_{13},C_6)}$$

$$\Phi_{(A_{12},B_{14},C_6)}$$

$$\Phi_{(A_{13},B_1,C_7)}$$

$$\Phi_{(A_{13},B_1,C_8)}$$

$$\Phi_{(A_{13},B_2,C_7)}$$

$$\Phi_{(A_{13},B_2,C_8)}$$

$$\Phi_{(A_{13},B_3,C_7)}$$

$$\Phi_{(A_{13},B_3,C_8)}$$

$$\Phi_{(A_{13},B_4,C_9)}$$

$$\Phi_{(A_{13},B_4,C_{10})}$$

$$\Phi_{(A_{13},B_6,C_{11})}$$

$$\Phi_{(A_{13},B_6,C_{12})}$$

$$\Phi_{(A_{13},B_7,C_1)}$$

$$\Phi_{(A_{13},B_7,C_2)}$$

$$\Phi_{(A_{13},B_7,C_3)}$$

$$\Phi_{(A_{13},B_8,C_1)}$$

$$\Phi_{(A_{13},B_8,C_2)}$$

$$\Phi_{(A_{13},B_8,C_3)}$$

$$\Phi_{(A_{13},B_9,C_4)}$$

$$\Phi_{(A_{13},B_{10},C_4)}$$

$$\Phi_{(A_{13},B_{11},C_6)}$$

$$\Phi_{(A_{13},B_{12},C_6)}$$

$$\Phi_{(A_{14},B_1,C_7)}$$

$$\Phi_{(A_{14},B_1,C_8)}$$

$$\Phi_{(A_{14},B_2,C_7)}$$

$$\Phi_{(A_{14},B_2,C_8)}$$

$$\Phi_{(A_{14},B_3,C_7)}$$

$$\Phi_{(A_{14},B_3,C_8)}$$

$$\Phi_{(A_{14},B_4,C_9)}$$

$$\Phi_{(A_{14},B_4,C_{10})}$$

$$\Phi_{(A_{14},B_6,C_{11})}$$

$$\Phi_{(A_{14},B_6,C_{12})}$$

$$\Phi_{(A_{14},B_7,C_1)}$$

$$\Phi_{(A_{14},B_7,C_2)}$$

$$\Phi_{(A_{14},B_7,C_3)}$$

$$\Phi_{(A_{14},B_8,C_1)}$$

$$\Phi_{(A_{14},B_8,C_2)}$$

$$\Phi_{(A_{14},B_8,C_3)}$$

$$\Phi_{(A_{14},B_9,C_4)}$$

$$\Phi_{(A_{14},B_{10},C_4)}$$

$$\Phi_{(A_{14},B_{11},C_6)}$$

$$\Phi_{(A_{14},B_{12},C_6)}$$

$$\Phi_{(A_{15},B_1,C_6)}$$

$$\Phi_{(A_{15},B_2,C_6)}$$

$$\Phi_{(A_{15},B_3,C_6)}$$

$$\Phi_{(A_{15},B_6,C_1)}$$

$$\Phi_{(A_{15},B_6,C_2)}$$

$$\Phi_{(A_{15},B_6,C_3)}$$

$$\Phi_{(A_{15},B_7,C_9)}$$

$$\Phi_{(A_{15},B_7,C_{10})}$$

$$\Phi_{(A_{15},B_8,C_9)}$$

$$\Phi_{(A_{15},B_8,C_{10})}$$

$$\Phi_{(A_{15},B_9,C_7)}$$

$$\Phi_{(A_{15}, B_9, C_8)}$$

$$\Phi_{(A_{15}, B_{10}, C_7)}$$

$$\Phi_{(A_{15}, B_{10}, C_8)}$$

For 4-block excitation, there are $3501C_4^N$ excited types:

$$\Phi_{(A_1, B_1, C_1, D_1)}$$

$$\Phi_{(A_1, B_1, C_1, D_2)}$$

$$\Phi_{(A_1, B_1, C_1, D_3)}$$

$$\Phi_{(A_1, B_1, C_2, D_1)}$$

$$\Phi_{(A_1, B_1, C_2, D_2)}$$

$$\Phi_{(A_1, B_1, C_2, D_3)}$$

$$\Phi_{(A_1, B_1, C_3, D_1)}$$

$$\Phi_{(A_1, B_1, C_3, D_2)}$$

$$\Phi_{(A_1, B_1, C_3, D_3)}$$

$$\Phi_{(A_1, B_1, C_4, D_5)}$$

$$\Phi_{(A_1, B_1, C_5, D_4)}$$

$$\Phi_{(A_1, B_1, C_6, D_{15})}$$

$$\Phi_{(A_1, B_1, C_7, D_{13})}$$

$$\Phi_{(A_1, B_1, C_7, D_{14})}$$

$$\Phi_{(A_1, B_1, C_8, D_{13})}$$

$$\Phi_{(A_1, B_1, C_8, D_{14})}$$

$$\Phi_{(A_1, B_1, C_9, D_{11})}$$

$$\Phi_{(A_1, B_1, C_9, D_{12})}$$

$$\Phi_{(A_1, B_1, C_{10}, D_{11})}$$

$$\Phi_{(A_1, B_1, C_{10}, D_{12})}$$

$$\Phi_{(A_1, B_1, C_{11}, D_9)}$$

$$\Phi_{(A_1, B_1, C_{11}, D_{10})}$$

$$\Phi_{(A_1, B_1, C_{12}, D_9)}$$

$$\Phi_{(A_1, B_1, C_{12}, D_{10})}$$

$$\Phi(A_1, B_1, C_{13}, D_7)$$

$$\Phi(A_1, B_1, C_{13}, D_8)$$

$$\Phi(A_1, B_1, C_{14}, D_7)$$

$$\Phi(A_1, B_1, C_{14}, D_8)$$

$$\Phi(A_1, B_1, C_{15}, D_6)$$

$$\Phi(A_1, B_2, C_1, D_1)$$

$$\Phi(A_1, B_2, C_1, D_2)$$

$$\Phi(A_1, B_2, C_1, D_3)$$

$$\Phi(A_1, B_2, C_2, D_1)$$

$$\Phi(A_1, B_2, C_2, D_2)$$

$$\Phi(A_1, B_2, C_2, D_3)$$

$$\Phi(A_1, B_2, C_3, D_1)$$

$$\Phi(A_1, B_2, C_3, D_2)$$

$$\Phi(A_1, B_2, C_3, D_3)$$

$$\Phi(A_1, B_2, C_4, D_5)$$

$$\Phi(A_1, B_2, C_5, D_4)$$

$$\Phi(A_1, B_2, C_6, D_{15})$$

$$\Phi(A_1, B_2, C_7, D_{13})$$

$$\Phi(A_1, B_2, C_7, D_{14})$$

$$\Phi(A_1, B_2, C_8, D_{13})$$

$$\Phi(A_1, B_2, C_8, D_{14})$$

$$\Phi(A_1, B_2, C_9, D_{11})$$

$$\Phi(A_1, B_2, C_9, D_{12})$$

$$\Phi(A_1, B_2, C_{10}, D_{11})$$

$$\Phi(A_1, B_2, C_{10}, D_{12})$$

$$\Phi(A_1, B_2, C_{11}, D_9)$$

$$\Phi(A_1, B_2, C_{11}, D_{10})$$

$$\Phi(A_1, B_2, C_{12}, D_9)$$

$$\Phi(A_1, B_2, C_{12}, D_{10})$$

$$\Phi(A_1, B_2, C_{13}, D_7)$$

$$\Phi(A_1, B_2, C_{13}, D_8)$$

$$\Phi(A_1, B_2, C_{14}, D_7)$$

$$\Phi(A_1, B_2, C_{14}, D_8)$$

$$\Phi(A_1, B_2, C_{15}, D_6)$$

$$\Phi(A_1, B_3, C_1, D_1)$$

$$\Phi(A_1, B_3, C_1, D_2)$$

$$\Phi(A_1, B_3, C_1, D_3)$$

$$\Phi(A_1, B_3, C_2, D_1)$$

$$\Phi(A_1, B_3, C_2, D_2)$$

$$\Phi(A_1, B_3, C_2, D_3)$$

$$\Phi(A_1, B_3, C_3, D_1)$$

$$\Phi(A_1, B_3, C_3, D_2)$$

$$\Phi(A_1, B_3, C_3, D_3)$$

$$\Phi(A_1, B_3, C_4, D_5)$$

$$\Phi(A_1, B_3, C_5, D_4)$$

$$\Phi(A_1, B_3, C_6, D_{15})$$

$$\Phi(A_1, B_3, C_7, D_{13})$$

$$\Phi(A_1, B_3, C_7, D_{14})$$

$$\Phi(A_1, B_3, C_8, D_{13})$$

$$\Phi(A_1, B_3, C_8, D_{14})$$

$$\Phi(A_1, B_3, C_9, D_{11})$$

$$\Phi(A_1, B_3, C_9, D_{12})$$

$$\Phi(A_1, B_3, C_{10}, D_{11})$$

$$\Phi(A_1, B_3, C_{10}, D_{12})$$

$$\Phi(A_1, B_3, C_{11}, D_9)$$

$$\Phi(A_1, B_3, C_{11}, D_{10})$$

$$\Phi(A_1, B_3, C_{12}, D_9)$$

$$\Phi(A_1, B_3, C_{12}, D_{10})$$

$$\Phi(A_1, B_3, C_{13}, D_7)$$

$$\Phi(A_1, B_3, C_{13}, D_8)$$

$$\Phi(A_1, B_3, C_{14}, D_7)$$

$$\Phi(A_1, B_3, C_{14}, D_8)$$

$$\Phi(A_1, B_3, C_{15}, D_6)$$

$$\Phi(A_1, B_4, C_1, D_5)$$

$$\Phi(A_1, B_4, C_2, D_5)$$

$$\Phi(A_1, B_4, C_3, D_5)$$

$$\Phi(A_1, B_4, C_5, D_1)$$

$$\Phi(A_1, B_4, C_5, D_2)$$

$$\Phi(A_1, B_4, C_5, D_3)$$

$$\Phi(A_1, B_4, C_9, D_{13})$$

$$\Phi(A_1, B_4, C_9, D_{14})$$

$$\Phi(A_1, B_4, C_{10}, D_{13})$$

$$\Phi(A_1, B_4, C_{10}, D_{14})$$

$$\Phi(A_1, B_4, C_{13}, D_9)$$

$$\Phi(A_1, B_4, C_{13}, D_{10})$$

$$\Phi(A_1, B_4, C_{14}, D_9)$$

$$\Phi(A_1, B_4, C_{14}, D_{10})$$

$$\Phi(A_1, B_5, C_1, D_4)$$

$$\Phi(A_1, B_5, C_2, D_4)$$

$$\Phi(A_1, B_5, C_3, D_4)$$

$$\Phi(A_1, B_5, C_4, D_1)$$

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$$\Phi(A_9, B_9, C_{12}, D_{11})$$

$$\Phi(A_9, B_9, C_{12}, D_{12})$$

$$\Phi(A_9, B_9, C_{15}, D_4)$$

$$\Phi(A_9, B_{10}, C_4, D_{15})$$

$$\Phi(A_9, B_{10}, C_{11}, D_{11})$$

$$\Phi(A_9, B_{10}, C_{11}, D_{12})$$

$$\Phi(A_9, B_{10}, C_{12}, D_{11})$$

$$\Phi(A_9, B_{10}, C_{12}, D_{12})$$

$$\Phi(A_9, B_{10}, C_{15}, D_4)$$

$$\Phi(A_9, B_{11}, C_1, D_1)$$

$$\Phi(A_9, B_{11}, C_1, D_2)$$

$$\Phi(A_9, B_{11}, C_1, D_3)$$

$$\Phi(A_9, B_{11}, C_2, D_1)$$

$$\Phi(A_9, B_{11}, C_2, D_2)$$

$$\Phi(A_9, B_{11}, C_2, D_3)$$

$$\Phi(A_9, B_{11}, C_3, D_1)$$

$$\Phi(A_9, B_{11}, C_3, D_2)$$

$$\Phi(A_9, B_{11}, C_3, D_3)$$

$$\Phi(A_9, B_{11}, C_4, D_5)$$

$$\Phi(A_9, B_{11}, C_5, D_4)$$

$$\Phi(A_9, B_{11}, C_6, D_{15})$$

$$\Phi(A_9, B_{11}, C_7, D_{13})$$

$$\Phi(A_9, B_{11}, C_7, D_{14})$$

$$\Phi(A_9, B_{11}, C_8, D_{13})$$

$$\Phi(A_9, B_{11}, C_8, D_{14})$$

$$\Phi(A_9, B_{11}, C_9, D_{11})$$

$$\Phi(A_9, B_{11}, C_9, D_{12})$$

$$\Phi(A_9, B_{11}, C_{10}, D_{11})$$

$$\Phi(A_9, B_{11}, C_{10}, D_{12})$$

$$\Phi(A_9, B_{11}, C_{11}, D_9)$$

$$\Phi(A_9, B_{11}, C_{11}, D_{10})$$

$$\Phi(A_9, B_{11}, C_{12}, D_9)$$

$$\Phi(A_9, B_{11}, C_{12}, D_{10})$$

$$\Phi(A_9, B_{11}, C_{13}, D_7)$$

$$\Phi(A_9, B_{11}, C_{13}, D_8)$$

$$\Phi(A_9, B_{11}, C_{14}, D_7)$$

$$\Phi(A_9, B_{11}, C_{14}, D_8)$$

$$\Phi(A_9, B_{11}, C_{15}, D_6)$$

$$\Phi(A_9, B_{12}, C_1, D_1)$$

$$\Phi(A_9, B_{12}, C_1, D_2)$$

$$\Phi(A_9, B_{12}, C_1, D_3)$$

$$\Phi(A_9, B_{12}, C_2, D_1)$$

$$\Phi(A_9, B_{12}, C_2, D_2)$$

$$\Phi(A_9, B_{12}, C_2, D_3)$$

$$\Phi(A_9, B_{12}, C_3, D_1)$$

$$\Phi(A_9, B_{12}, C_3, D_2)$$

$$\Phi(A_9, B_{12}, C_3, D_3)$$

$$\Phi(A_9, B_{12}, C_4, D_5)$$

$$\Phi(A_9, B_{12}, C_5, D_4)$$

$$\Phi(A_9, B_{12}, C_6, D_{15})$$

$$\Phi(A_9, B_{12}, C_7, D_{13})$$

$$\Phi(A_9, B_{12}, C_7, D_{14})$$

$$\Phi(A_9, B_{12}, C_8, D_{13})$$

$$\Phi(A_9, B_{12}, C_8, D_{14})$$

$$\Phi(A_9, B_{12}, C_9, D_{11})$$

$$\Phi(A_9, B_{12}, C_9, D_{12})$$

$$\Phi(A_9, B_{12}, C_{10}, D_{11})$$

$$\Phi(A_9, B_{12}, C_{10}, D_{12})$$

$$\Phi(A_9, B_{12}, C_{11}, D_9)$$

$$\Phi(A_9, B_{12}, C_{11}, D_{10})$$

$$\Phi(A_9, B_{12}, C_{12}, D_9)$$

$$\Phi(A_9, B_{12}, C_{12}, D_{10})$$

$$\Phi(A_9, B_{12}, C_{13}, D_7)$$

$$\Phi(A_9, B_{12}, C_{13}, D_8)$$

$$\Phi(A_9, B_{12}, C_{14}, D_7)$$

$$\Phi(A_9, B_{12}, C_{14}, D_8)$$

$$\Phi(A_9, B_{12}, C_{15}, D_6)$$

$$\Phi(A_9, B_{13}, C_1, D_4)$$

$$\Phi(A_9, B_{13}, C_2, D_4)$$

$$\Phi(A_9, B_{13}, C_3, D_4)$$

$$\Phi(A_9, B_{13}, C_4, D_1)$$

$$\Phi(A_9, B_{13}, C_4, D_2)$$

$$\Phi(A_9, B_{13}, C_4, D_3)$$

$$\Phi(A_9, B_{13}, C_7, D_{11})$$

$$\Phi(A_9, B_{13}, C_7, D_{12})$$

$$\Phi(A_9, B_{13}, C_8, D_{11})$$

$$\Phi(A_9, B_{13}, C_8, D_{12})$$

$$\Phi(A_9, B_{13}, C_{11}, D_7)$$

$$\Phi(A_9, B_{13}, C_{11}, D_8)$$

$$\Phi(A_9, B_{13}, C_{12}, D_7)$$

$$\Phi(A_9, B_{13}, C_{12}, D_8)$$

$$\Phi(A_9, B_{14}, C_1, D_4)$$

$$\Phi(A_9, B_{14}, C_2, D_4)$$

$$\Phi(A_9, B_{14}, C_3, D_4)$$

$$\Phi(A_9, B_{14}, C_4, D_1)$$

$$\Phi(A_9, B_{14}, C_4, D_2)$$

$$\Phi(A_9, B_{14}, C_4, D_3)$$

$$\Phi(A_9, B_{14}, C_7, D_{11})$$

$$\Phi(A_9, B_{14}, C_7, D_{12})$$

$$\Phi(A_9, B_{14}, C_8, D_{11})$$

$$\Phi(A_9, B_{14}, C_8, D_{12})$$

$$\Phi(A_9, B_{14}, C_{11}, D_7)$$

$$\Phi(A_9, B_{14}, C_{11}, D_8)$$

$$\Phi(A_9, B_{14}, C_{12}, D_7)$$

$$\Phi(A_9, B_{14}, C_{12}, D_8)$$

$$\Phi(A_9, B_{15}, C_1, D_7)$$

$$\Phi(A_9, B_{15}, C_1, D_8)$$

$$\Phi(A_9, B_{15}, C_2, D_7)$$

$$\Phi(A_9, B_{15}, C_2, D_8)$$

$$\Phi(A_9, B_{15}, C_3, D_7)$$

$$\Phi(A_9, B_{15}, C_3, D_8)$$

$$\Phi(A_9, B_{15}, C_4, D_9)$$

$$\Phi(A_9, B_{15}, C_4, D_{10})$$

$$\Phi(A_9, B_{15}, C_6, D_{11})$$

$$\Phi(A_9, B_{15}, C_6, D_{12})$$

$$\Phi(A_9, B_{15}, C_7, D_1)$$

$$\Phi(A_9, B_{15}, C_7, D_2)$$

$$\Phi(A_9, B_{15}, C_7, D_3)$$

$$\Phi(A_9, B_{15}, C_8, D_1)$$

$$\Phi(A_9, B_{15}, C_8, D_2)$$

$$\Phi(A_9, B_{15}, C_8, D_3)$$

$$\Phi(A_9, B_{15}, C_9, D_4)$$

$$\Phi(A_9, B_{15}, C_{10}, D_4)$$

$$\Phi(A_9, B_{15}, C_{11}, D_6)$$

$$\Phi(A_9, B_{15}, C_{12}, D_6)$$

$$\Phi(A_{10}, B_1, C_1, D_{11})$$

$$\Phi(A_{10}, B_1, C_1, D_{12})$$

$$\Phi(A_{10}, B_1, C_2, D_{11})$$

$$\Phi(A_{10}, B_1, C_2, D_{12})$$

$$\Phi(A_{10}, B_1, C_3, D_{11})$$

$$\Phi(A_{10}, B_1, C_3, D_{12})$$

$$\Phi(A_{10}, B_1, C_4, D_{13})$$

$$\Phi(A_{10}, B_1, C_4, D_{14})$$

$$\Phi(A_{10}, B_1, C_7, D_{15})$$

$$\Phi(A_{10}, B_1, C_8, D_{15})$$

$$\Phi(A_{10}, B_1, C_{11}, D_1)$$

$$\Phi(A_{10}, B_1, C_{11}, D_2)$$

$$\Phi(A_{10}, B_1, C_{11}, D_3)$$

$$\Phi(A_{10}, B_1, C_{12}, D_1)$$

$$\Phi(A_{10}, B_1, C_{12}, D_2)$$

$$\Phi(A_{10}, B_1, C_{12}, D_3)$$

$$\Phi(A_{10}, B_1, C_{13}, D_4)$$

$$\Phi(A_{10}, B_1, C_{14}, D_4)$$

$$\Phi(A_{10}, B_1, C_{15}, D_7)$$

$$\Phi(A_{10}, B_1, C_{15}, D_8)$$

$$\Phi(A_{10}, B_2, C_1, D_{11})$$

$$\Phi(A_{10}, B_2, C_1, D_{12})$$

$$\Phi(A_{10}, B_2, C_2, D_{11})$$

$$\Phi(A_{10}, B_2, C_2, D_{12})$$

$$\Phi(A_{10}, B_2, C_3, D_{11})$$

$$\Phi(A_{10}, B_2, C_3, D_{12})$$

$$\Phi(A_{10}, B_2, C_4, D_{13})$$

$$\Phi(A_{10}, B_2, C_4, D_{14})$$

$$\Phi(A_{10}, B_2, C_7, D_{15})$$

$$\Phi(A_{10}, B_2, C_8, D_{15})$$

$$\Phi(A_{10}, B_2, C_{11}, D_1)$$

$$\Phi(A_{10}, B_2, C_{11}, D_2)$$

$$\Phi(A_{10}, B_2, C_{11}, D_3)$$

$$\Phi(A_{10}, B_2, C_{12}, D_1)$$

$$\Phi(A_{10}, B_2, C_{12}, D_2)$$

$$\Phi(A_{10}, B_2, C_{12}, D_3)$$

$$\Phi(A_{10}, B_2, C_{13}, D_4)$$

$$\Phi(A_{10}, B_2, C_{14}, D_4)$$

$$\Phi(A_{10}, B_2, C_{15}, D_7)$$

$$\Phi(A_{10}, B_2, C_{15}, D_8)$$

$$\Phi(A_{10}, B_3, C_1, D_{11})$$

$$\Phi(A_{10}, B_3, C_1, D_{12})$$

$$\Phi(A_{10}, B_3, C_2, D_{11})$$

$$\Phi(A_{10}, B_3, C_2, D_{12})$$

$$\Phi(A_{10}, B_3, C_3, D_{11})$$

$$\Phi(A_{10}, B_3, C_3, D_{12})$$

$$\Phi(A_{10}, B_3, C_4, D_{13})$$

$$\Phi(A_{10}, B_3, C_4, D_{14})$$

$$\Phi_{(A_{10},B_3,C_7,D_{15})}$$

$$\Phi_{(A_{10},B_3,C_8,D_{15})}$$

$$\Phi_{(A_{10},B_3,C_{11},D_1)}$$

$$\Phi_{(A_{10},B_3,C_{11},D_2)}$$

$$\Phi_{(A_{10},B_3,C_{11},D_3)}$$

$$\Phi_{(A_{10},B_3,C_{12},D_1)}$$

$$\Phi_{(A_{10},B_3,C_{12},D_2)}$$

$$\Phi_{(A_{10},B_3,C_{12},D_3)}$$

$$\Phi_{(A_{10},B_3,C_{13},D_4)}$$

$$\Phi_{(A_{10},B_3,C_{14},D_4)}$$

$$\Phi_{(A_{10},B_3,C_{15},D_7)}$$

$$\Phi_{(A_{10},B_3,C_{15},D_8)}$$

$$\Phi_{(A_{10},B_4,C_1,D_{13})}$$

$$\Phi_{(A_{10},B_4,C_1,D_{14})}$$

$$\Phi_{(A_{10},B_4,C_2,D_{13})}$$

$$\Phi_{(A_{10},B_4,C_2,D_{14})}$$

$$\Phi_{(A_{10},B_4,C_3,D_{13})}$$

$$\Phi_{(A_{10},B_4,C_3,D_{14})}$$

$$\Phi_{(A_{10},B_4,C_5,D_{11})}$$

$$\Phi_{(A_{10},B_4,C_5,D_{12})}$$

$$\Phi_{(A_{10},B_4,C_9,D_{15})}$$

$$\Phi_{(A_{10},B_4,C_{10},D_{15})}$$

$$\Phi_{(A_{10},B_4,C_{11},D_5)}$$

$$\Phi_{(A_{10},B_4,C_{12},D_5)}$$

$$\Phi_{(A_{10},B_4,C_{13},D_1)}$$

$$\Phi_{(A_{10},B_4,C_{13},D_2)}$$

$$\Phi_{(A_{10},B_4,C_{13},D_3)}$$

$$\Phi_{(A_{10},B_4,C_{14},D_1)}$$

$$\Phi_{(A_{10},B_4,C_{14},D_2)}$$

$$\begin{aligned}
&\Phi(A_{10}, B_4, C_{14}, D_3) \\
&\Phi(A_{10}, B_4, C_{15}, D_9) \\
&\Phi(A_{10}, B_4, C_{15}, D_{10}) \\
&\Phi(A_{10}, B_5, C_4, D_{11}) \\
&\Phi(A_{10}, B_5, C_4, D_{12}) \\
&\Phi(A_{10}, B_5, C_{11}, D_4) \\
&\Phi(A_{10}, B_5, C_{12}, D_4) \\
&\Phi(A_{10}, B_6, C_{11}, D_{15}) \\
&\Phi(A_{10}, B_6, C_{12}, D_{15}) \\
&\Phi(A_{10}, B_6, C_{15}, D_{11}) \\
&\Phi(A_{10}, B_6, C_{15}, D_{12}) \\
&\Phi(A_{10}, B_7, C_1, D_{15}) \\
&\Phi(A_{10}, B_7, C_2, D_{15}) \\
&\Phi(A_{10}, B_7, C_3, D_{15}) \\
&\Phi(A_{10}, B_7, C_{11}, D_{13}) \\
&\Phi(A_{10}, B_7, C_{11}, D_{14}) \\
&\Phi(A_{10}, B_7, C_{12}, D_{13}) \\
&\Phi(A_{10}, B_7, C_{12}, D_{14}) \\
&\Phi(A_{10}, B_7, C_{13}, D_{11}) \\
&\Phi(A_{10}, B_7, C_{13}, D_{12}) \\
&\Phi(A_{10}, B_7, C_{14}, D_{11}) \\
&\Phi(A_{10}, B_7, C_{14}, D_{12}) \\
&\Phi(A_{10}, B_7, C_{15}, D_1) \\
&\Phi(A_{10}, B_7, C_{15}, D_2) \\
&\Phi(A_{10}, B_7, C_{15}, D_3) \\
&\Phi(A_{10}, B_8, C_1, D_{15}) \\
&\Phi(A_{10}, B_8, C_2, D_{15}) \\
&\Phi(A_{10}, B_8, C_3, D_{15}) \\
&\Phi(A_{10}, B_8, C_{11}, D_{13})
\end{aligned}$$

$$\Phi(A_{10}, B_8, C_{11}, D_{14})$$

$$\Phi(A_{10}, B_8, C_{12}, D_{13})$$

$$\Phi(A_{10}, B_8, C_{12}, D_{14})$$

$$\Phi(A_{10}, B_8, C_{13}, D_{11})$$

$$\Phi(A_{10}, B_8, C_{13}, D_{12})$$

$$\Phi(A_{10}, B_8, C_{14}, D_{11})$$

$$\Phi(A_{10}, B_8, C_{14}, D_{12})$$

$$\Phi(A_{10}, B_8, C_{15}, D_1)$$

$$\Phi(A_{10}, B_8, C_{15}, D_2)$$

$$\Phi(A_{10}, B_8, C_{15}, D_3)$$

$$\Phi(A_{10}, B_9, C_4, D_{15})$$

$$\Phi(A_{10}, B_9, C_{11}, D_{11})$$

$$\Phi(A_{10}, B_9, C_{11}, D_{12})$$

$$\Phi(A_{10}, B_9, C_{12}, D_{11})$$

$$\Phi(A_{10}, B_9, C_{12}, D_{12})$$

$$\Phi(A_{10}, B_9, C_{15}, D_4)$$

$$\Phi(A_{10}, B_{10}, C_4, D_{15})$$

$$\Phi(A_{10}, B_{10}, C_{11}, D_{11})$$

$$\Phi(A_{10}, B_{10}, C_{11}, D_{12})$$

$$\Phi(A_{10}, B_{10}, C_{12}, D_{11})$$

$$\Phi(A_{10}, B_{10}, C_{12}, D_{12})$$

$$\Phi(A_{10}, B_{10}, C_{15}, D_4)$$

$$\Phi(A_{10}, B_{11}, C_1, D_1)$$

$$\Phi(A_{10}, B_{11}, C_1, D_2)$$

$$\Phi(A_{10}, B_{11}, C_1, D_3)$$

$$\Phi(A_{10}, B_{11}, C_2, D_1)$$

$$\Phi(A_{10}, B_{11}, C_2, D_2)$$

$$\Phi(A_{10}, B_{11}, C_2, D_3)$$

$$\Phi(A_{10}, B_{11}, C_3, D_1)$$

$$\begin{aligned}
&\Phi(A_{10}, B_{11}, C_3, D_2) \\
&\Phi(A_{10}, B_{11}, C_3, D_3) \\
&\Phi(A_{10}, B_{11}, C_4, D_5) \\
&\Phi(A_{10}, B_{11}, C_5, D_4) \\
&\Phi(A_{10}, B_{11}, C_6, D_{15}) \\
&\Phi(A_{10}, B_{11}, C_7, D_{13}) \\
&\Phi(A_{10}, B_{11}, C_7, D_{14}) \\
&\Phi(A_{10}, B_{11}, C_8, D_{13}) \\
&\Phi(A_{10}, B_{11}, C_8, D_{14}) \\
&\Phi(A_{10}, B_{11}, C_9, D_{11}) \\
&\Phi(A_{10}, B_{11}, C_9, D_{12}) \\
&\Phi(A_{10}, B_{11}, C_{10}, D_{11}) \\
&\Phi(A_{10}, B_{11}, C_{10}, D_{12}) \\
&\Phi(A_{10}, B_{11}, C_{11}, D_9) \\
&\Phi(A_{10}, B_{11}, C_{11}, D_{10}) \\
&\Phi(A_{10}, B_{11}, C_{12}, D_9) \\
&\Phi(A_{10}, B_{11}, C_{12}, D_{10}) \\
&\Phi(A_{10}, B_{11}, C_{13}, D_7) \\
&\Phi(A_{10}, B_{11}, C_{13}, D_8) \\
&\Phi(A_{10}, B_{11}, C_{14}, D_7) \\
&\Phi(A_{10}, B_{11}, C_{14}, D_8) \\
&\Phi(A_{10}, B_{11}, C_{15}, D_6) \\
&\Phi(A_{10}, B_{12}, C_1, D_1) \\
&\Phi(A_{10}, B_{12}, C_1, D_2) \\
&\Phi(A_{10}, B_{12}, C_1, D_3) \\
&\Phi(A_{10}, B_{12}, C_2, D_1) \\
&\Phi(A_{10}, B_{12}, C_2, D_2) \\
&\Phi(A_{10}, B_{12}, C_2, D_3) \\
&\Phi(A_{10}, B_{12}, C_3, D_1)
\end{aligned}$$

$$\begin{aligned}
&\Phi(A_{10}, B_{12}, C_3, D_2) \\
&\Phi(A_{10}, B_{12}, C_3, D_3) \\
&\Phi(A_{10}, B_{12}, C_4, D_5) \\
&\Phi(A_{10}, B_{12}, C_5, D_4) \\
&\Phi(A_{10}, B_{12}, C_6, D_{15}) \\
&\Phi(A_{10}, B_{12}, C_7, D_{13}) \\
&\Phi(A_{10}, B_{12}, C_7, D_{14}) \\
&\Phi(A_{10}, B_{12}, C_8, D_{13}) \\
&\Phi(A_{10}, B_{12}, C_8, D_{14}) \\
&\Phi(A_{10}, B_{12}, C_9, D_{11}) \\
&\Phi(A_{10}, B_{12}, C_9, D_{12}) \\
&\Phi(A_{10}, B_{12}, C_{10}, D_{11}) \\
&\Phi(A_{10}, B_{12}, C_{10}, D_{12}) \\
&\Phi(A_{10}, B_{12}, C_{11}, D_9) \\
&\Phi(A_{10}, B_{12}, C_{11}, D_{10}) \\
&\Phi(A_{10}, B_{12}, C_{12}, D_9) \\
&\Phi(A_{10}, B_{12}, C_{12}, D_{10}) \\
&\Phi(A_{10}, B_{12}, C_{13}, D_7) \\
&\Phi(A_{10}, B_{12}, C_{13}, D_8) \\
&\Phi(A_{10}, B_{12}, C_{14}, D_7) \\
&\Phi(A_{10}, B_{12}, C_{14}, D_8) \\
&\Phi(A_{10}, B_{12}, C_{15}, D_6) \\
&\Phi(A_{10}, B_{13}, C_1, D_4) \\
&\Phi(A_{10}, B_{13}, C_2, D_4) \\
&\Phi(A_{10}, B_{13}, C_3, D_4) \\
&\Phi(A_{10}, B_{13}, C_4, D_1) \\
&\Phi(A_{10}, B_{13}, C_4, D_2) \\
&\Phi(A_{10}, B_{13}, C_4, D_3) \\
&\Phi(A_{10}, B_{13}, C_7, D_{11})
\end{aligned}$$

$$\Phi(A_{10}, B_{13}, C_7, D_{12})$$

$$\Phi(A_{10}, B_{13}, C_8, D_{11})$$

$$\Phi(A_{10}, B_{13}, C_8, D_{12})$$

$$\Phi(A_{10}, B_{13}, C_{11}, D_7)$$

$$\Phi(A_{10}, B_{13}, C_{11}, D_8)$$

$$\Phi(A_{10}, B_{13}, C_{12}, D_7)$$

$$\Phi(A_{10}, B_{13}, C_{12}, D_8)$$

$$\Phi(A_{10}, B_{14}, C_1, D_4)$$

$$\Phi(A_{10}, B_{14}, C_2, D_4)$$

$$\Phi(A_{10}, B_{14}, C_3, D_4)$$

$$\Phi(A_{10}, B_{14}, C_4, D_1)$$

$$\Phi(A_{10}, B_{14}, C_4, D_2)$$

$$\Phi(A_{10}, B_{14}, C_4, D_3)$$

$$\Phi(A_{10}, B_{14}, C_7, D_{11})$$

$$\Phi(A_{10}, B_{14}, C_7, D_{12})$$

$$\Phi(A_{10}, B_{14}, C_8, D_{11})$$

$$\Phi(A_{10}, B_{14}, C_8, D_{12})$$

$$\Phi(A_{10}, B_{14}, C_{11}, D_7)$$

$$\Phi(A_{10}, B_{14}, C_{11}, D_8)$$

$$\Phi(A_{10}, B_{14}, C_{12}, D_7)$$

$$\Phi(A_{10}, B_{14}, C_{12}, D_8)$$

$$\Phi(A_{10}, B_{15}, C_1, D_7)$$

$$\Phi(A_{10}, B_{15}, C_1, D_8)$$

$$\Phi(A_{10}, B_{15}, C_2, D_7)$$

$$\Phi(A_{10}, B_{15}, C_2, D_8)$$

$$\Phi(A_{10}, B_{15}, C_3, D_7)$$

$$\Phi(A_{10}, B_{15}, C_3, D_8)$$

$$\Phi(A_{10}, B_{15}, C_4, D_9)$$

$$\Phi(A_{10}, B_{15}, C_4, D_{10})$$

$$\Phi(A_{10}, B_{15}, C_6, D_{11})$$

$$\Phi(A_{10}, B_{15}, C_6, D_{12})$$

$$\Phi(A_{10}, B_{15}, C_7, D_1)$$

$$\Phi(A_{10}, B_{15}, C_7, D_2)$$

$$\Phi(A_{10}, B_{15}, C_7, D_3)$$

$$\Phi(A_{10}, B_{15}, C_8, D_1)$$

$$\Phi(A_{10}, B_{15}, C_8, D_2)$$

$$\Phi(A_{10}, B_{15}, C_8, D_3)$$

$$\Phi(A_{10}, B_{15}, C_9, D_4)$$

$$\Phi(A_{10}, B_{15}, C_{10}, D_4)$$

$$\Phi(A_{10}, B_{15}, C_{11}, D_6)$$

$$\Phi(A_{10}, B_{15}, C_{12}, D_6)$$

$$\Phi(A_{11}, B_1, C_1, D_9)$$

$$\Phi(A_{11}, B_1, C_1, D_{10})$$

$$\Phi(A_{11}, B_1, C_2, D_9)$$

$$\Phi(A_{11}, B_1, C_2, D_{10})$$

$$\Phi(A_{11}, B_1, C_3, D_9)$$

$$\Phi(A_{11}, B_1, C_3, D_{10})$$

$$\Phi(A_{11}, B_1, C_5, D_7)$$

$$\Phi(A_{11}, B_1, C_5, D_8)$$

$$\Phi(A_{11}, B_1, C_6, D_{13})$$

$$\Phi(A_{11}, B_1, C_6, D_{14})$$

$$\Phi(A_{11}, B_1, C_7, D_5)$$

$$\Phi(A_{11}, B_1, C_8, D_5)$$

$$\Phi(A_{11}, B_1, C_9, D_1)$$

$$\Phi(A_{11}, B_1, C_9, D_2)$$

$$\Phi(A_{11}, B_1, C_9, D_3)$$

$$\Phi(A_{11}, B_1, C_{10}, D_1)$$

$$\Phi(A_{11}, B_1, C_{10}, D_2)$$

$$\Phi(A_{11}, B_1, C_{10}, D_3)$$

$$\Phi(A_{11}, B_1, C_{13}, D_6)$$

$$\Phi(A_{11}, B_1, C_{14}, D_6)$$

$$\Phi(A_{11}, B_2, C_1, D_9)$$

$$\Phi(A_{11}, B_2, C_1, D_{10})$$

$$\Phi(A_{11}, B_2, C_2, D_9)$$

$$\Phi(A_{11}, B_2, C_2, D_{10})$$

$$\Phi(A_{11}, B_2, C_3, D_9)$$

$$\Phi(A_{11}, B_2, C_3, D_{10})$$

$$\Phi(A_{11}, B_2, C_5, D_7)$$

$$\Phi(A_{11}, B_2, C_5, D_8)$$

$$\Phi(A_{11}, B_2, C_6, D_{13})$$

$$\Phi(A_{11}, B_2, C_6, D_{14})$$

$$\Phi(A_{11}, B_2, C_7, D_5)$$

$$\Phi(A_{11}, B_2, C_8, D_5)$$

$$\Phi(A_{11}, B_2, C_9, D_1)$$

$$\Phi(A_{11}, B_2, C_9, D_2)$$

$$\Phi(A_{11}, B_2, C_9, D_3)$$

$$\Phi(A_{11}, B_2, C_{10}, D_1)$$

$$\Phi(A_{11}, B_2, C_{10}, D_2)$$

$$\Phi(A_{11}, B_2, C_{10}, D_3)$$

$$\Phi(A_{11}, B_2, C_{13}, D_6)$$

$$\Phi(A_{11}, B_2, C_{14}, D_6)$$

$$\Phi(A_{11}, B_3, C_1, D_9)$$

$$\Phi(A_{11}, B_3, C_1, D_{10})$$

$$\Phi(A_{11}, B_3, C_2, D_9)$$

$$\Phi(A_{11}, B_3, C_2, D_{10})$$

$$\Phi(A_{11}, B_3, C_3, D_9)$$

$$\Phi(A_{11}, B_3, C_3, D_{10})$$

$$\Phi(A_{11}, B_3, C_5, D_7)$$

$$\Phi(A_{11}, B_3, C_5, D_8)$$

$$\Phi(A_{11}, B_3, C_6, D_{13})$$

$$\Phi(A_{11}, B_3, C_6, D_{14})$$

$$\Phi(A_{11}, B_3, C_7, D_5)$$

$$\Phi(A_{11}, B_3, C_8, D_5)$$

$$\Phi(A_{11}, B_3, C_9, D_1)$$

$$\Phi(A_{11}, B_3, C_9, D_2)$$

$$\Phi(A_{11}, B_3, C_9, D_3)$$

$$\Phi(A_{11}, B_3, C_{10}, D_1)$$

$$\Phi(A_{11}, B_3, C_{10}, D_2)$$

$$\Phi(A_{11}, B_3, C_{10}, D_3)$$

$$\Phi(A_{11}, B_3, C_{13}, D_6)$$

$$\Phi(A_{11}, B_3, C_{14}, D_6)$$

$$\Phi(A_{11}, B_4, C_5, D_9)$$

$$\Phi(A_{11}, B_4, C_5, D_{10})$$

$$\Phi(A_{11}, B_4, C_9, D_5)$$

$$\Phi(A_{11}, B_4, C_{10}, D_5)$$

$$\Phi(A_{11}, B_5, C_1, D_7)$$

$$\Phi(A_{11}, B_5, C_1, D_8)$$

$$\Phi(A_{11}, B_5, C_2, D_7)$$

$$\Phi(A_{11}, B_5, C_2, D_8)$$

$$\Phi(A_{11}, B_5, C_3, D_7)$$

$$\Phi(A_{11}, B_5, C_3, D_8)$$

$$\Phi(A_{11}, B_5, C_4, D_9)$$

$$\Phi(A_{11}, B_5, C_4, D_{10})$$

$$\Phi(A_{11}, B_5, C_6, D_{11})$$

$$\Phi(A_{11}, B_5, C_6, D_{12})$$

$$\Phi(A_{11}, B_5, C_7, D_1)$$

$$\begin{aligned}
&\Phi(A_{11}, B_5, C_7, D_2) \\
&\Phi(A_{11}, B_5, C_7, D_3) \\
&\Phi(A_{11}, B_5, C_8, D_1) \\
&\Phi(A_{11}, B_5, C_8, D_2) \\
&\Phi(A_{11}, B_5, C_8, D_3) \\
&\Phi(A_{11}, B_5, C_9, D_4) \\
&\Phi(A_{11}, B_5, C_{10}, D_4) \\
&\Phi(A_{11}, B_5, C_{11}, D_6) \\
&\Phi(A_{11}, B_5, C_{12}, D_6) \\
&\Phi(A_{11}, B_6, C_1, D_{13}) \\
&\Phi(A_{11}, B_6, C_1, D_{14}) \\
&\Phi(A_{11}, B_6, C_2, D_{13}) \\
&\Phi(A_{11}, B_6, C_2, D_{14}) \\
&\Phi(A_{11}, B_6, C_3, D_{13}) \\
&\Phi(A_{11}, B_6, C_3, D_{14}) \\
&\Phi(A_{11}, B_6, C_5, D_{11}) \\
&\Phi(A_{11}, B_6, C_5, D_{12}) \\
&\Phi(A_{11}, B_6, C_9, D_{15}) \\
&\Phi(A_{11}, B_6, C_{10}, D_{15}) \\
&\Phi(A_{11}, B_6, C_{11}, D_5) \\
&\Phi(A_{11}, B_6, C_{12}, D_5) \\
&\Phi(A_{11}, B_6, C_{13}, D_1) \\
&\Phi(A_{11}, B_6, C_{13}, D_2) \\
&\Phi(A_{11}, B_6, C_{13}, D_3) \\
&\Phi(A_{11}, B_6, C_{14}, D_1) \\
&\Phi(A_{11}, B_6, C_{14}, D_2) \\
&\Phi(A_{11}, B_6, C_{14}, D_3) \\
&\Phi(A_{11}, B_6, C_{15}, D_9) \\
&\Phi(A_{11}, B_6, C_{15}, D_{10})
\end{aligned}$$

$$\begin{aligned}
&\Phi(A_{11}, B_7, C_1, D_5) \\
&\Phi(A_{11}, B_7, C_2, D_5) \\
&\Phi(A_{11}, B_7, C_3, D_5) \\
&\Phi(A_{11}, B_7, C_5, D_1) \\
&\Phi(A_{11}, B_7, C_5, D_2) \\
&\Phi(A_{11}, B_7, C_5, D_3) \\
&\Phi(A_{11}, B_7, C_9, D_{13}) \\
&\Phi(A_{11}, B_7, C_9, D_{14}) \\
&\Phi(A_{11}, B_7, C_{10}, D_{13}) \\
&\Phi(A_{11}, B_7, C_{10}, D_{14}) \\
&\Phi(A_{11}, B_7, C_{13}, D_9) \\
&\Phi(A_{11}, B_7, C_{13}, D_{10}) \\
&\Phi(A_{11}, B_7, C_{14}, D_9) \\
&\Phi(A_{11}, B_7, C_{14}, D_{10}) \\
&\Phi(A_{11}, B_8, C_1, D_5) \\
&\Phi(A_{11}, B_8, C_2, D_5) \\
&\Phi(A_{11}, B_8, C_3, D_5) \\
&\Phi(A_{11}, B_8, C_5, D_1) \\
&\Phi(A_{11}, B_8, C_5, D_2) \\
&\Phi(A_{11}, B_8, C_5, D_3) \\
&\Phi(A_{11}, B_8, C_9, D_{13}) \\
&\Phi(A_{11}, B_8, C_9, D_{14}) \\
&\Phi(A_{11}, B_8, C_{10}, D_{13}) \\
&\Phi(A_{11}, B_8, C_{10}, D_{14}) \\
&\Phi(A_{11}, B_8, C_{13}, D_9) \\
&\Phi(A_{11}, B_8, C_{13}, D_{10}) \\
&\Phi(A_{11}, B_8, C_{14}, D_9) \\
&\Phi(A_{11}, B_8, C_{14}, D_{10}) \\
&\Phi(A_{11}, B_9, C_1, D_1)
\end{aligned}$$

$$\Phi(A_{11}, B_9, C_1, D_2)$$

$$\Phi(A_{11}, B_9, C_1, D_3)$$

$$\Phi(A_{11}, B_9, C_2, D_1)$$

$$\Phi(A_{11}, B_9, C_2, D_2)$$

$$\Phi(A_{11}, B_9, C_2, D_3)$$

$$\Phi(A_{11}, B_9, C_3, D_1)$$

$$\Phi(A_{11}, B_9, C_3, D_2)$$

$$\Phi(A_{11}, B_9, C_3, D_3)$$

$$\Phi(A_{11}, B_9, C_4, D_5)$$

$$\Phi(A_{11}, B_9, C_5, D_4)$$

$$\Phi(A_{11}, B_9, C_6, D_{15})$$

$$\Phi(A_{11}, B_9, C_7, D_{13})$$

$$\Phi(A_{11}, B_9, C_7, D_{14})$$

$$\Phi(A_{11}, B_9, C_8, D_{13})$$

$$\Phi(A_{11}, B_9, C_8, D_{14})$$

$$\Phi(A_{11}, B_9, C_9, D_{11})$$

$$\Phi(A_{11}, B_9, C_9, D_{12})$$

$$\Phi(A_{11}, B_9, C_{10}, D_{11})$$

$$\Phi(A_{11}, B_9, C_{10}, D_{12})$$

$$\Phi(A_{11}, B_9, C_{11}, D_9)$$

$$\Phi(A_{11}, B_9, C_{11}, D_{10})$$

$$\Phi(A_{11}, B_9, C_{12}, D_9)$$

$$\Phi(A_{11}, B_9, C_{12}, D_{10})$$

$$\Phi(A_{11}, B_9, C_{13}, D_7)$$

$$\Phi(A_{11}, B_9, C_{13}, D_8)$$

$$\Phi(A_{11}, B_9, C_{14}, D_7)$$

$$\Phi(A_{11}, B_9, C_{14}, D_8)$$

$$\Phi(A_{11}, B_9, C_{15}, D_6)$$

$$\Phi(A_{11}, B_{10}, C_1, D_1)$$

$$\begin{aligned}
&\Phi(A_{11}, B_{10}, C_1, D_2) \\
&\Phi(A_{11}, B_{10}, C_1, D_3) \\
&\Phi(A_{11}, B_{10}, C_2, D_1) \\
&\Phi(A_{11}, B_{10}, C_2, D_2) \\
&\Phi(A_{11}, B_{10}, C_2, D_3) \\
&\Phi(A_{11}, B_{10}, C_3, D_1) \\
&\Phi(A_{11}, B_{10}, C_3, D_2) \\
&\Phi(A_{11}, B_{10}, C_3, D_3) \\
&\Phi(A_{11}, B_{10}, C_4, D_5) \\
&\Phi(A_{11}, B_{10}, C_5, D_4) \\
&\Phi(A_{11}, B_{10}, C_6, D_{15}) \\
&\Phi(A_{11}, B_{10}, C_7, D_{13}) \\
&\Phi(A_{11}, B_{10}, C_7, D_{14}) \\
&\Phi(A_{11}, B_{10}, C_8, D_{13}) \\
&\Phi(A_{11}, B_{10}, C_8, D_{14}) \\
&\Phi(A_{11}, B_{10}, C_9, D_{11}) \\
&\Phi(A_{11}, B_{10}, C_9, D_{12}) \\
&\Phi(A_{11}, B_{10}, C_{10}, D_{11}) \\
&\Phi(A_{11}, B_{10}, C_{10}, D_{12}) \\
&\Phi(A_{11}, B_{10}, C_{11}, D_9) \\
&\Phi(A_{11}, B_{10}, C_{11}, D_{10}) \\
&\Phi(A_{11}, B_{10}, C_{12}, D_9) \\
&\Phi(A_{11}, B_{10}, C_{12}, D_{10}) \\
&\Phi(A_{11}, B_{10}, C_{13}, D_7) \\
&\Phi(A_{11}, B_{10}, C_{13}, D_8) \\
&\Phi(A_{11}, B_{10}, C_{14}, D_7) \\
&\Phi(A_{11}, B_{10}, C_{14}, D_8) \\
&\Phi(A_{11}, B_{10}, C_{15}, D_6) \\
&\Phi(A_{11}, B_{11}, C_5, D_6)
\end{aligned}$$

$$\begin{aligned}
&\Phi(A_{11}, B_{11}, C_6, D_5) \\
&\Phi(A_{11}, B_{11}, C_9, D_9) \\
&\Phi(A_{11}, B_{11}, C_9, D_{10}) \\
&\Phi(A_{11}, B_{11}, C_{10}, D_9) \\
&\Phi(A_{11}, B_{11}, C_{10}, D_{10}) \\
&\Phi(A_{11}, B_{12}, C_5, D_6) \\
&\Phi(A_{11}, B_{12}, C_6, D_5) \\
&\Phi(A_{11}, B_{12}, C_9, D_9) \\
&\Phi(A_{11}, B_{12}, C_9, D_{10}) \\
&\Phi(A_{11}, B_{12}, C_{10}, D_9) \\
&\Phi(A_{11}, B_{12}, C_{10}, D_{10}) \\
&\Phi(A_{11}, B_{13}, C_1, D_6) \\
&\Phi(A_{11}, B_{13}, C_2, D_6) \\
&\Phi(A_{11}, B_{13}, C_3, D_6) \\
&\Phi(A_{11}, B_{13}, C_6, D_1) \\
&\Phi(A_{11}, B_{13}, C_6, D_2) \\
&\Phi(A_{11}, B_{13}, C_6, D_3) \\
&\Phi(A_{11}, B_{13}, C_7, D_9) \\
&\Phi(A_{11}, B_{13}, C_7, D_{10}) \\
&\Phi(A_{11}, B_{13}, C_8, D_9) \\
&\Phi(A_{11}, B_{13}, C_8, D_{10}) \\
&\Phi(A_{11}, B_{13}, C_9, D_7) \\
&\Phi(A_{11}, B_{13}, C_9, D_8) \\
&\Phi(A_{11}, B_{13}, C_{10}, D_7) \\
&\Phi(A_{11}, B_{13}, C_{10}, D_8) \\
&\Phi(A_{11}, B_{14}, C_1, D_6) \\
&\Phi(A_{11}, B_{14}, C_2, D_6) \\
&\Phi(A_{11}, B_{14}, C_3, D_6) \\
&\Phi(A_{11}, B_{14}, C_6, D_1)
\end{aligned}$$

$$\Phi(A_{11}, B_{14}, C_6, D_2)$$

$$\Phi(A_{11}, B_{14}, C_6, D_3)$$

$$\Phi(A_{11}, B_{14}, C_7, D_9)$$

$$\Phi(A_{11}, B_{14}, C_7, D_{10})$$

$$\Phi(A_{11}, B_{14}, C_8, D_9)$$

$$\Phi(A_{11}, B_{14}, C_8, D_{10})$$

$$\Phi(A_{11}, B_{14}, C_9, D_7)$$

$$\Phi(A_{11}, B_{14}, C_9, D_8)$$

$$\Phi(A_{11}, B_{14}, C_{10}, D_7)$$

$$\Phi(A_{11}, B_{14}, C_{10}, D_8)$$

$$\Phi(A_{11}, B_{15}, C_6, D_9)$$

$$\Phi(A_{11}, B_{15}, C_6, D_{10})$$

$$\Phi(A_{11}, B_{15}, C_9, D_6)$$

$$\Phi(A_{11}, B_{15}, C_{10}, D_6)$$

$$\Phi(A_{12}, B_1, C_1, D_9)$$

$$\Phi(A_{12}, B_1, C_1, D_{10})$$

$$\Phi(A_{12}, B_1, C_2, D_9)$$

$$\Phi(A_{12}, B_1, C_2, D_{10})$$

$$\Phi(A_{12}, B_1, C_3, D_9)$$

$$\Phi(A_{12}, B_1, C_3, D_{10})$$

$$\Phi(A_{12}, B_1, C_5, D_7)$$

$$\Phi(A_{12}, B_1, C_5, D_8)$$

$$\Phi(A_{12}, B_1, C_6, D_{13})$$

$$\Phi(A_{12}, B_1, C_6, D_{14})$$

$$\Phi(A_{12}, B_1, C_7, D_5)$$

$$\Phi(A_{12}, B_1, C_8, D_5)$$

$$\Phi(A_{12}, B_1, C_9, D_1)$$

$$\Phi(A_{12}, B_1, C_9, D_2)$$

$$\Phi(A_{12}, B_1, C_9, D_3)$$

$$\Phi(A_{12}, B_1, C_{10}, D_1)$$

$$\Phi(A_{12}, B_1, C_{10}, D_2)$$

$$\Phi(A_{12}, B_1, C_{10}, D_3)$$

$$\Phi(A_{12}, B_1, C_{13}, D_6)$$

$$\Phi(A_{12}, B_1, C_{14}, D_6)$$

$$\Phi(A_{12}, B_2, C_1, D_9)$$

$$\Phi(A_{12}, B_2, C_1, D_{10})$$

$$\Phi(A_{12}, B_2, C_2, D_9)$$

$$\Phi(A_{12}, B_2, C_2, D_{10})$$

$$\Phi(A_{12}, B_2, C_3, D_9)$$

$$\Phi(A_{12}, B_2, C_3, D_{10})$$

$$\Phi(A_{12}, B_2, C_5, D_7)$$

$$\Phi(A_{12}, B_2, C_5, D_8)$$

$$\Phi(A_{12}, B_2, C_6, D_{13})$$

$$\Phi(A_{12}, B_2, C_6, D_{14})$$

$$\Phi(A_{12}, B_2, C_7, D_5)$$

$$\Phi(A_{12}, B_2, C_8, D_5)$$

$$\Phi(A_{12}, B_2, C_9, D_1)$$

$$\Phi(A_{12}, B_2, C_9, D_2)$$

$$\Phi(A_{12}, B_2, C_9, D_3)$$

$$\Phi(A_{12}, B_2, C_{10}, D_1)$$

$$\Phi(A_{12}, B_2, C_{10}, D_2)$$

$$\Phi(A_{12}, B_2, C_{10}, D_3)$$

$$\Phi(A_{12}, B_2, C_{13}, D_6)$$

$$\Phi(A_{12}, B_2, C_{14}, D_6)$$

$$\Phi(A_{12}, B_3, C_1, D_9)$$

$$\Phi(A_{12}, B_3, C_1, D_{10})$$

$$\Phi(A_{12}, B_3, C_2, D_9)$$

$$\Phi(A_{12}, B_3, C_2, D_{10})$$

$$\Phi(A_{12}, B_3, C_3, D_9)$$

$$\Phi(A_{12}, B_3, C_3, D_{10})$$

$$\Phi(A_{12}, B_3, C_5, D_7)$$

$$\Phi(A_{12}, B_3, C_5, D_8)$$

$$\Phi(A_{12}, B_3, C_6, D_{13})$$

$$\Phi(A_{12}, B_3, C_6, D_{14})$$

$$\Phi(A_{12}, B_3, C_7, D_5)$$

$$\Phi(A_{12}, B_3, C_8, D_5)$$

$$\Phi(A_{12}, B_3, C_9, D_1)$$

$$\Phi(A_{12}, B_3, C_9, D_2)$$

$$\Phi(A_{12}, B_3, C_9, D_3)$$

$$\Phi(A_{12}, B_3, C_{10}, D_1)$$

$$\Phi(A_{12}, B_3, C_{10}, D_2)$$

$$\Phi(A_{12}, B_3, C_{10}, D_3)$$

$$\Phi(A_{12}, B_3, C_{13}, D_6)$$

$$\Phi(A_{12}, B_3, C_{14}, D_6)$$

$$\Phi(A_{12}, B_4, C_5, D_9)$$

$$\Phi(A_{12}, B_4, C_5, D_{10})$$

$$\Phi(A_{12}, B_4, C_9, D_5)$$

$$\Phi(A_{12}, B_4, C_{10}, D_5)$$

$$\Phi(A_{12}, B_5, C_1, D_7)$$

$$\Phi(A_{12}, B_5, C_1, D_8)$$

$$\Phi(A_{12}, B_5, C_2, D_7)$$

$$\Phi(A_{12}, B_5, C_2, D_8)$$

$$\Phi(A_{12}, B_5, C_3, D_7)$$

$$\Phi(A_{12}, B_5, C_3, D_8)$$

$$\Phi(A_{12}, B_5, C_4, D_9)$$

$$\Phi(A_{12}, B_5, C_4, D_{10})$$

$$\Phi(A_{12}, B_5, C_6, D_{11})$$

$$\Phi(A_{12}, B_5, C_6, D_{12})$$

$$\Phi(A_{12}, B_5, C_7, D_1)$$

$$\Phi(A_{12}, B_5, C_7, D_2)$$

$$\Phi(A_{12}, B_5, C_7, D_3)$$

$$\Phi(A_{12}, B_5, C_8, D_1)$$

$$\Phi(A_{12}, B_5, C_8, D_2)$$

$$\Phi(A_{12}, B_5, C_8, D_3)$$

$$\Phi(A_{12}, B_5, C_9, D_4)$$

$$\Phi(A_{12}, B_5, C_{10}, D_4)$$

$$\Phi(A_{12}, B_5, C_{11}, D_6)$$

$$\Phi(A_{12}, B_5, C_{12}, D_6)$$

$$\Phi(A_{12}, B_6, C_1, D_{13})$$

$$\Phi(A_{12}, B_6, C_1, D_{14})$$

$$\Phi(A_{12}, B_6, C_2, D_{13})$$

$$\Phi(A_{12}, B_6, C_2, D_{14})$$

$$\Phi(A_{12}, B_6, C_3, D_{13})$$

$$\Phi(A_{12}, B_6, C_3, D_{14})$$

$$\Phi(A_{12}, B_6, C_5, D_{11})$$

$$\Phi(A_{12}, B_6, C_5, D_{12})$$

$$\Phi(A_{12}, B_6, C_9, D_{15})$$

$$\Phi(A_{12}, B_6, C_{10}, D_{15})$$

$$\Phi(A_{12}, B_6, C_{11}, D_5)$$

$$\Phi(A_{12}, B_6, C_{12}, D_5)$$

$$\Phi(A_{12}, B_6, C_{13}, D_1)$$

$$\Phi(A_{12}, B_6, C_{13}, D_2)$$

$$\Phi(A_{12}, B_6, C_{13}, D_3)$$

$$\Phi(A_{12}, B_6, C_{14}, D_1)$$

$$\Phi(A_{12}, B_6, C_{14}, D_2)$$

$$\Phi(A_{12}, B_6, C_{14}, D_3)$$

$$\Phi(A_{12}, B_6, C_{15}, D_9)$$

$$\Phi(A_{12}, B_6, C_{15}, D_{10})$$

$$\Phi(A_{12}, B_7, C_1, D_5)$$

$$\Phi(A_{12}, B_7, C_2, D_5)$$

$$\Phi(A_{12}, B_7, C_3, D_5)$$

$$\Phi(A_{12}, B_7, C_5, D_1)$$

$$\Phi(A_{12}, B_7, C_5, D_2)$$

$$\Phi(A_{12}, B_7, C_5, D_3)$$

$$\Phi(A_{12}, B_7, C_9, D_{13})$$

$$\Phi(A_{12}, B_7, C_9, D_{14})$$

$$\Phi(A_{12}, B_7, C_{10}, D_{13})$$

$$\Phi(A_{12}, B_7, C_{10}, D_{14})$$

$$\Phi(A_{12}, B_7, C_{13}, D_9)$$

$$\Phi(A_{12}, B_7, C_{13}, D_{10})$$

$$\Phi(A_{12}, B_7, C_{14}, D_9)$$

$$\Phi(A_{12}, B_7, C_{14}, D_{10})$$

$$\Phi(A_{12}, B_8, C_1, D_5)$$

$$\Phi(A_{12}, B_8, C_2, D_5)$$

$$\Phi(A_{12}, B_8, C_3, D_5)$$

$$\Phi(A_{12}, B_8, C_5, D_1)$$

$$\Phi(A_{12}, B_8, C_5, D_2)$$

$$\Phi(A_{12}, B_8, C_5, D_3)$$

$$\Phi(A_{12}, B_8, C_9, D_{13})$$

$$\Phi(A_{12}, B_8, C_9, D_{14})$$

$$\Phi(A_{12}, B_8, C_{10}, D_{13})$$

$$\Phi(A_{12}, B_8, C_{10}, D_{14})$$

$$\Phi(A_{12}, B_8, C_{13}, D_9)$$

$$\Phi(A_{12}, B_8, C_{13}, D_{10})$$

$$\Phi(A_{12}, B_8, C_{14}, D_9)$$

$$\Phi(A_{12}, B_8, C_{14}, D_{10})$$

$$\Phi(A_{12}, B_9, C_1, D_1)$$

$$\Phi(A_{12}, B_9, C_1, D_2)$$

$$\Phi(A_{12}, B_9, C_1, D_3)$$

$$\Phi(A_{12}, B_9, C_2, D_1)$$

$$\Phi(A_{12}, B_9, C_2, D_2)$$

$$\Phi(A_{12}, B_9, C_2, D_3)$$

$$\Phi(A_{12}, B_9, C_3, D_1)$$

$$\Phi(A_{12}, B_9, C_3, D_2)$$

$$\Phi(A_{12}, B_9, C_3, D_3)$$

$$\Phi(A_{12}, B_9, C_4, D_5)$$

$$\Phi(A_{12}, B_9, C_5, D_4)$$

$$\Phi(A_{12}, B_9, C_6, D_{15})$$

$$\Phi(A_{12}, B_9, C_7, D_{13})$$

$$\Phi(A_{12}, B_9, C_7, D_{14})$$

$$\Phi(A_{12}, B_9, C_8, D_{13})$$

$$\Phi(A_{12}, B_9, C_8, D_{14})$$

$$\Phi(A_{12}, B_9, C_9, D_{11})$$

$$\Phi(A_{12}, B_9, C_9, D_{12})$$

$$\Phi(A_{12}, B_9, C_{10}, D_{11})$$

$$\Phi(A_{12}, B_9, C_{10}, D_{12})$$

$$\Phi(A_{12}, B_9, C_{11}, D_9)$$

$$\Phi(A_{12}, B_9, C_{11}, D_{10})$$

$$\Phi(A_{12}, B_9, C_{12}, D_9)$$

$$\Phi(A_{12}, B_9, C_{12}, D_{10})$$

$$\Phi(A_{12}, B_9, C_{13}, D_7)$$

$$\Phi(A_{12}, B_9, C_{13}, D_8)$$

$$\Phi(A_{12}, B_9, C_{14}, D_7)$$

$$\Phi(A_{12}, B_9, C_{14}, D_8)$$

$$\begin{aligned}
&\Phi(A_{12}, B_9, C_{15}, D_6) \\
&\Phi(A_{12}, B_{10}, C_1, D_1) \\
&\Phi(A_{12}, B_{10}, C_1, D_2) \\
&\Phi(A_{12}, B_{10}, C_1, D_3) \\
&\Phi(A_{12}, B_{10}, C_2, D_1) \\
&\Phi(A_{12}, B_{10}, C_2, D_2) \\
&\Phi(A_{12}, B_{10}, C_2, D_3) \\
&\Phi(A_{12}, B_{10}, C_3, D_1) \\
&\Phi(A_{12}, B_{10}, C_3, D_2) \\
&\Phi(A_{12}, B_{10}, C_3, D_3) \\
&\Phi(A_{12}, B_{10}, C_4, D_5) \\
&\Phi(A_{12}, B_{10}, C_5, D_4) \\
&\Phi(A_{12}, B_{10}, C_6, D_{15}) \\
&\Phi(A_{12}, B_{10}, C_7, D_{13}) \\
&\Phi(A_{12}, B_{10}, C_7, D_{14}) \\
&\Phi(A_{12}, B_{10}, C_8, D_{13}) \\
&\Phi(A_{12}, B_{10}, C_8, D_{14}) \\
&\Phi(A_{12}, B_{10}, C_9, D_{11}) \\
&\Phi(A_{12}, B_{10}, C_9, D_{12}) \\
&\Phi(A_{12}, B_{10}, C_{10}, D_{11}) \\
&\Phi(A_{12}, B_{10}, C_{10}, D_{12}) \\
&\Phi(A_{12}, B_{10}, C_{11}, D_9) \\
&\Phi(A_{12}, B_{10}, C_{11}, D_{10}) \\
&\Phi(A_{12}, B_{10}, C_{12}, D_9) \\
&\Phi(A_{12}, B_{10}, C_{12}, D_{10}) \\
&\Phi(A_{12}, B_{10}, C_{13}, D_7) \\
&\Phi(A_{12}, B_{10}, C_{13}, D_8) \\
&\Phi(A_{12}, B_{10}, C_{14}, D_7) \\
&\Phi(A_{12}, B_{10}, C_{14}, D_8)
\end{aligned}$$

$$\Phi(A_{12}, B_{10}, C_{15}, D_6)$$

$$\Phi(A_{12}, B_{11}, C_5, D_6)$$

$$\Phi(A_{12}, B_{11}, C_6, D_5)$$

$$\Phi(A_{12}, B_{11}, C_9, D_9)$$

$$\Phi(A_{12}, B_{11}, C_9, D_{10})$$

$$\Phi(A_{12}, B_{11}, C_{10}, D_9)$$

$$\Phi(A_{12}, B_{11}, C_{10}, D_{10})$$

$$\Phi(A_{12}, B_{12}, C_5, D_6)$$

$$\Phi(A_{12}, B_{12}, C_6, D_5)$$

$$\Phi(A_{12}, B_{12}, C_9, D_9)$$

$$\Phi(A_{12}, B_{12}, C_9, D_{10})$$

$$\Phi(A_{12}, B_{12}, C_{10}, D_9)$$

$$\Phi(A_{12}, B_{12}, C_{10}, D_{10})$$

$$\Phi(A_{12}, B_{13}, C_1, D_6)$$

$$\Phi(A_{12}, B_{13}, C_2, D_6)$$

$$\Phi(A_{12}, B_{13}, C_3, D_6)$$

$$\Phi(A_{12}, B_{13}, C_6, D_1)$$

$$\Phi(A_{12}, B_{13}, C_6, D_2)$$

$$\Phi(A_{12}, B_{13}, C_6, D_3)$$

$$\Phi(A_{12}, B_{13}, C_7, D_9)$$

$$\Phi(A_{12}, B_{13}, C_7, D_{10})$$

$$\Phi(A_{12}, B_{13}, C_8, D_9)$$

$$\Phi(A_{12}, B_{13}, C_8, D_{10})$$

$$\Phi(A_{12}, B_{13}, C_9, D_7)$$

$$\Phi(A_{12}, B_{13}, C_9, D_8)$$

$$\Phi(A_{12}, B_{13}, C_{10}, D_7)$$

$$\Phi(A_{12}, B_{13}, C_{10}, D_8)$$

$$\Phi(A_{12}, B_{14}, C_1, D_6)$$

$$\Phi(A_{12}, B_{14}, C_2, D_6)$$

$$\Phi(A_{12}, B_{14}, C_3, D_6)$$

$$\Phi(A_{12}, B_{14}, C_6, D_1)$$

$$\Phi(A_{12}, B_{14}, C_6, D_2)$$

$$\Phi(A_{12}, B_{14}, C_6, D_3)$$

$$\Phi(A_{12}, B_{14}, C_7, D_9)$$

$$\Phi(A_{12}, B_{14}, C_7, D_{10})$$

$$\Phi(A_{12}, B_{14}, C_8, D_9)$$

$$\Phi(A_{12}, B_{14}, C_8, D_{10})$$

$$\Phi(A_{12}, B_{14}, C_9, D_7)$$

$$\Phi(A_{12}, B_{14}, C_9, D_8)$$

$$\Phi(A_{12}, B_{14}, C_{10}, D_7)$$

$$\Phi(A_{12}, B_{14}, C_{10}, D_8)$$

$$\Phi(A_{12}, B_{15}, C_6, D_9)$$

$$\Phi(A_{12}, B_{15}, C_6, D_{10})$$

$$\Phi(A_{12}, B_{15}, C_9, D_6)$$

$$\Phi(A_{12}, B_{15}, C_{10}, D_6)$$

$$\Phi(A_{13}, B_1, C_1, D_7)$$

$$\Phi(A_{13}, B_1, C_1, D_8)$$

$$\Phi(A_{13}, B_1, C_2, D_7)$$

$$\Phi(A_{13}, B_1, C_2, D_8)$$

$$\Phi(A_{13}, B_1, C_3, D_7)$$

$$\Phi(A_{13}, B_1, C_3, D_8)$$

$$\Phi(A_{13}, B_1, C_4, D_9)$$

$$\Phi(A_{13}, B_1, C_4, D_{10})$$

$$\Phi(A_{13}, B_1, C_6, D_{11})$$

$$\Phi(A_{13}, B_1, C_6, D_{12})$$

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$$\Phi(A_{13}, B_1, C_{12}, D_6)$$

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$$\Phi(A_{13}, B_3, C_4, D_{10})$$

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$$\Phi(A_{13}, B_7, C_5, D_4)$$

$$\Phi(A_{13}, B_7, C_6, D_{15})$$

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$$\Phi(A_{13}, B_7, C_7, D_{14})$$

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$$\Phi(A_{13}, B_7, C_8, D_{14})$$

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$$\Phi(A_{13}, B_7, C_{11}, D_{10})$$

$$\Phi(A_{13}, B_7, C_{12}, D_9)$$

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$$\Phi_{(A_{13},B_7,C_{13},D_8)}$$

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$$\Phi_{(A_{13},B_8,C_3,D_1)}$$

$$\Phi_{(A_{13},B_8,C_3,D_2)}$$

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$$\Phi_{(A_{13},B_8,C_7,D_{13})}$$

$$\Phi_{(A_{13},B_8,C_7,D_{14})}$$

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$$\Phi_{(A_{13},B_8,C_9,D_{11})}$$

$$\Phi_{(A_{13},B_8,C_9,D_{12})}$$

$$\Phi_{(A_{13},B_8,C_{10},D_{11})}$$

$$\Phi_{(A_{13},B_8,C_{10},D_{12})}$$

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$$\Phi(A_{14}, B_1, C_4, D_9)$$

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