Auxiliary Material

Superpolies Used in Cube Attacks on TRIVIUM

In the auxiliary material, we give the detailed ANF of the superpolies we recovered which are used in the cube attacks on 841- and 842-round of TRIVIUM. P_{I_6} in Section 1 and P_{I_7} in Section 2 are for the 841-round, while P_{I_9} in Section 3 and $P_{I_{10}}$ in Section 4 are for 842-round. We emphasize that all the superpolies we recovered are balanced, and the key bit that is independent of other key bits in the ANF of each superpoly is colored in red.

1 Superpoly p_{I_6}

Taking the cube of dimension 76 as

$$I_6 = \{0, 1, \ldots, 69, 71, 73, 74, 75, 77, 79\}, \quad IV[70] = IV[72] = IV[76] = IV[78] = 0,$$

we recover the superpoly p_{I_6} for 841-Round TRIVIUM that has 3236 terms and we give it as the following

$p_{I_6} = 1 \oplus k_{78} \oplus k_{79}k_{77} \oplus k_{79}k_{76} \oplus k_{79}k_{78}k_{76} \oplus k_{77}k_{76} \oplus k_{79}k_{78}k_{77}k_{76} \oplus$
$\qquad k_{79}k_{78}k_{75} \oplus k_{77}k_{75} \oplus k_{76}k_{75} \oplus k_{79}k_{76}k_{75} \oplus k_{78}k_{77}k_{76}k_{75} \oplus$
$\qquad k_{79}k_{78}k_{77}k_{76}k_{75} \oplus k_{74} \oplus k_{75}k_{74} \oplus k_{79}k_{75}k_{74} \oplus k_{79}k_{78}k_{75}k_{74} \oplus$
$\qquad k_{79}k_{78}k_{77}k_{75}k_{74} \oplus k_{78}k_{76}k_{75}k_{74} \oplus k_{79}k_{78}k_{73} \oplus k_{77}k_{74}k_{73} \oplus k_{76}k_{75}k_{74}k_{73} \oplus$
$\qquad k_{72} \oplus k_{75}k_{72} \oplus k_{74}k_{72} \oplus k_{79}k_{78}k_{73}k_{72} \oplus k_{75}k_{73}k_{72} \oplus k_{71} \oplus k_{75}k_{71} \oplus$
$\qquad k_{79}k_{78}k_{73}k_{71} \oplus k_{79}k_{78}k_{74}k_{72}k_{71} \oplus k_{73}k_{72}k_{71} \oplus k_{79}k_{78}k_{73}k_{72}k_{71} \oplus k_{70} \oplus$
$\qquad k_{75}k_{71}k_{70} \oplus k_{74}k_{71}k_{70} \oplus k_{73}k_{71}k_{70} \oplus k_{74}k_{73}k_{71}k_{70} \oplus k_{72}k_{71}k_{70} \oplus$
$\qquad k_{73}k_{72}k_{71}k_{70} \oplus k_{69} \oplus k_{74}k_{69} \oplus k_{73}k_{69} \oplus k_{73}k_{72}k_{69} \oplus k_{72}k_{71}k_{69} \oplus k_{70}k_{69} \oplus$
$\qquad k_{75}k_{70}k_{69} \oplus k_{79}k_{78}k_{73}k_{70}k_{69} \oplus k_{72}k_{70}k_{69} \oplus k_{73}k_{72}k_{70}k_{69} \oplus k_{71}k_{70}k_{69} \oplus$
$\qquad k_{79}k_{78}k_{72}k_{71}k_{70}k_{69} \oplus k_{74}k_{72}k_{71}k_{70}k_{69} \oplus k_{73}k_{72}k_{71}k_{70}k_{69} \oplus k_{68} \oplus k_{74}k_{68} \oplus$
$\qquad k_{73}k_{72}k_{68} \oplus k_{71}k_{68} \oplus k_{74}k_{71}k_{68} \oplus k_{73}k_{72}k_{71}k_{68} \oplus k_{69}k_{68} \oplus k_{70}k_{69}k_{68} \oplus$
$\qquad k_{74}k_{70}k_{69}k_{68} \oplus k_{73}k_{72}k_{70}k_{69}k_{68} \oplus k_{67} \oplus k_{74}k_{67} \oplus k_{73}k_{72}k_{67} \oplus k_{71}k_{67} \oplus$
$\qquad k_{74}k_{71}k_{67} \oplus k_{73}k_{72}k_{71}k_{67} \oplus k_{70}k_{69}k_{67} \oplus k_{74}k_{70}k_{69}k_{67} \oplus k_{73}k_{72}k_{70}k_{69}k_{67} \oplus$
$\qquad k_{68}k_{67} \oplus k_{73}k_{68}k_{67} \oplus k_{72}k_{71}k_{68}k_{67} \oplus k_{66} \oplus k_{74}k_{67}k_{66} \oplus k_{73}k_{72}k_{67}k_{66} \oplus$
$\qquad k_{65} \oplus k_{66}k_{65} \oplus k_{74}k_{68}k_{66}k_{65} \oplus k_{73}k_{72}k_{68}k_{66}k_{65} \oplus k_{74}k_{67}k_{66}k_{65} \oplus$
$\qquad k_{73}k_{72}k_{67}k_{66}k_{65} \oplus k_{65}k_{64} \oplus k_{67}k_{65}k_{64} \oplus k_{74}k_{67}k_{65}k_{64} \oplus k_{73}k_{72}k_{67}k_{65}k_{64} \oplus$
$\qquad k_{71}k_{67}k_{65}k_{64} \oplus k_{74}k_{71}k_{67}k_{65}k_{64} \oplus k_{73}k_{72}k_{71}k_{67}k_{65}k_{64} \oplus k_{70}k_{69}k_{67}k_{65}k_{64} \oplus$
$\qquad k_{74}k_{70}k_{69}k_{67}k_{65}k_{64} \oplus k_{73}k_{72}k_{70}k_{69}k_{67}k_{65}k_{64} \oplus k_{66}k_{65}k_{64} \oplus k_{74}k_{66}k_{65}k_{64} \oplus$
$\qquad k_{73}k_{72}k_{66}k_{65}k_{64} \oplus k_{71}k_{66}k_{65}k_{64} \oplus k_{74}k_{71}k_{66}k_{65}k_{64} \oplus k_{73}k_{72}k_{71}k_{66}k_{65}k_{64} \oplus$
$\qquad k_{70}k_{69}k_{66}k_{65}k_{64} \oplus k_{74}k_{70}k_{69}k_{66}k_{65}k_{64} \oplus k_{73}k_{72}k_{70}k_{69}k_{66}k_{65}k_{64} \oplus k_{63} \oplus$
$\qquad k_{79}k_{63} \oplus k_{79}k_{78}k_{63} \oplus k_{78}k_{77}k_{63} \oplus k_{76}k_{63} \oplus k_{75}k_{63} \oplus k_{75}k_{74}k_{63} \oplus k_{73}k_{63} \oplus$

$k_{74}k_{73}k_{63} \oplus k_{72}k_{63} \oplus k_{79}k_{78}k_{71}k_{63} \oplus k_{79}k_{78}k_{74}k_{71}k_{63} \oplus k_{73}k_{71}k_{63} \oplus$

$k_{79}k_{78}k_{73}k_{72}k_{71}k_{63} \oplus k_{71}k_{70}k_{63} \oplus k_{79}k_{78}k_{70}k_{69}k_{63} \oplus k_{79}k_{78}k_{74}k_{70}k_{69}k_{63} \oplus$

$k_{73}k_{70}k_{69}k_{63} \oplus k_{79}k_{78}k_{73}k_{72}k_{70}k_{69}k_{63} \oplus k_{72}k_{71}k_{70}k_{69}k_{63} \oplus k_{78}k_{77}k_{62} \oplus$

$k_{76}k_{62} \oplus k_{77}k_{76}k_{62} \oplus k_{79}k_{77}k_{76}k_{62} \oplus k_{78}k_{77}k_{76}k_{62} \oplus k_{75}k_{62} \oplus k_{77}k_{75}k_{62} \oplus$

$k_{76}k_{75}k_{62} \oplus k_{74}k_{62} \oplus k_{79}k_{78}k_{74}k_{62} \oplus k_{77}k_{75}k_{74}k_{62} \oplus k_{76}k_{75}k_{74}k_{62} \oplus$

$k_{79}k_{78}k_{73}k_{62} \oplus k_{74}k_{73}k_{62} \oplus k_{77}k_{74}k_{73}k_{62} \oplus k_{76}k_{74}k_{73}k_{62} \oplus k_{75}k_{74}k_{73}k_{62} \oplus$

$k_{76}k_{75}k_{74}k_{73}k_{62} \oplus k_{73}k_{72}k_{62} \oplus k_{79}k_{78}k_{73}k_{72}k_{62} \oplus k_{74}k_{71}k_{62} \oplus k_{72}k_{71}k_{62} \oplus$

$k_{79}k_{78}k_{72}k_{71}k_{62} \oplus k_{73}k_{72}k_{71}k_{62} \oplus k_{71}k_{70}k_{62} \oplus k_{74}k_{70}k_{69}k_{62} \oplus$

$k_{72}k_{70}k_{69}k_{62} \oplus k_{73}k_{72}k_{70}k_{69}k_{62} \oplus k_{71}k_{70}k_{69}k_{62} \oplus k_{66}k_{62} \oplus k_{65}k_{62} \oplus$

$k_{65}k_{64}k_{62} \oplus k_{78}k_{61} \oplus k_{79}k_{78}k_{61} \oplus k_{77}k_{76}k_{61} \oplus k_{79}k_{78}k_{73}k_{61} \oplus k_{71}k_{61} \oplus$

$k_{74}k_{71}k_{61} \oplus k_{79}k_{78}k_{74}k_{71}k_{61} \oplus k_{72}k_{71}k_{61} \oplus k_{79}k_{78}k_{72}k_{71}k_{61} \oplus$

$k_{73}k_{72}k_{71}k_{61} \oplus k_{79}k_{78}k_{73}k_{72}k_{71}k_{61} \oplus k_{71}k_{70}k_{61} \oplus k_{70}k_{69}k_{61} \oplus$

$k_{74}k_{70}k_{69}k_{61} \oplus k_{79}k_{78}k_{74}k_{70}k_{69}k_{61} \oplus k_{72}k_{70}k_{69}k_{61} \oplus k_{73}k_{72}k_{70}k_{69}k_{61} \oplus$

$k_{79}k_{78}k_{73}k_{72}k_{70}k_{69}k_{61} \oplus k_{71}k_{70}k_{69}k_{61} \oplus k_{62}k_{61} \oplus k_{79}k_{62}k_{61} \oplus$

$k_{78}k_{77}k_{62}k_{61} \oplus k_{76}k_{62}k_{61} \oplus k_{75}k_{62}k_{61} \oplus k_{75}k_{74}k_{62}k_{61} \oplus k_{74}k_{73}k_{62}k_{61} \oplus$

$k_{71}k_{62}k_{61} \oplus k_{70}k_{69}k_{62}k_{61} \oplus k_{60} \oplus k_{79}k_{78}k_{60} \oplus k_{73}k_{60} \oplus k_{72}k_{60} \oplus k_{71}k_{60} \oplus$

$k_{72}k_{71}k_{60} \oplus k_{71}k_{70}k_{60} \oplus k_{69}k_{60} \oplus k_{70}k_{69}k_{60} \oplus k_{68}k_{60} \oplus k_{68}k_{67}k_{60} \oplus$

$k_{67}k_{66}k_{60} \oplus k_{76}k_{61}k_{60} \oplus k_{75}k_{61}k_{60} \oplus k_{77}k_{75}k_{61}k_{60} \oplus k_{74}k_{61}k_{60} \oplus$

$k_{79}k_{78}k_{74}k_{61}k_{60} \oplus k_{73}k_{61}k_{60} \oplus k_{79}k_{78}k_{73}k_{61}k_{60} \oplus k_{74}k_{73}k_{61}k_{60} \oplus$

$k_{77}k_{74}k_{73}k_{61}k_{60} \oplus k_{76}k_{74}k_{73}k_{61}k_{60} \oplus k_{75}k_{74}k_{73}k_{61}k_{60} \oplus$

$k_{76}k_{75}k_{74}k_{73}k_{61}k_{60} \oplus k_{72}k_{61}k_{60} \oplus k_{73}k_{72}k_{61}k_{60} \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_{60} \oplus$

$k_{71}k_{61}k_{60} \oplus k_{79}k_{78}k_{71}k_{61}k_{60} \oplus k_{74}k_{71}k_{61}k_{60} \oplus k_{79}k_{78}k_{74}k_{71}k_{61}k_{60} \oplus$

$k_{73}k_{71}k_{61}k_{60} \oplus k_{72}k_{71}k_{61}k_{60} \oplus k_{79}k_{78}k_{72}k_{71}k_{61}k_{60} \oplus k_{73}k_{72}k_{71}k_{61}k_{60} \oplus$

$k_{79}k_{78}k_{73}k_{72}k_{71}k_{61}k_{60} \oplus k_{70}k_{69}k_{61}k_{60} \oplus k_{79}k_{78}k_{70}k_{69}k_{61}k_{60} \oplus$

$k_{74}k_{70}k_{69}k_{61}k_{60} \oplus k_{79}k_{78}k_{74}k_{70}k_{69}k_{61}k_{60} \oplus k_{73}k_{70}k_{69}k_{61}k_{60} \oplus$

$k_{72}k_{70}k_{69}k_{61}k_{60} \oplus k_{73}k_{72}k_{70}k_{69}k_{61}k_{60} \oplus k_{79}k_{78}k_{73}k_{72}k_{70}k_{69}k_{61}k_{60} \oplus$

$k_{71}k_{70}k_{69}k_{61}k_{60} \oplus k_{72}k_{71}k_{70}k_{69}k_{61}k_{60} \oplus k_{59} \oplus k_{75}k_{59} \oplus k_{74}k_{59} \oplus$

$k_{79}k_{78}k_{73}k_{59} \oplus k_{72}k_{59} \oplus k_{71}k_{59} \oplus k_{79}k_{78}k_{72}k_{71}k_{59} \oplus k_{74}k_{72}k_{71}k_{59} \oplus$

$k_{73}k_{72}k_{71}k_{59} \oplus k_{71}k_{70}k_{59} \oplus k_{70}k_{69}k_{59} \oplus k_{68}k_{59} \oplus k_{74}k_{68}k_{59} \oplus$

$k_{73}k_{72}k_{68}k_{59} \oplus k_{67}k_{59} \oplus k_{74}k_{67}k_{59} \oplus k_{73}k_{72}k_{67}k_{59} \oplus k_{67}k_{65}k_{64}k_{59} \oplus$

$k_{74}k_{67}k_{65}k_{64}k_{59} \oplus k_{73}k_{72}k_{67}k_{65}k_{64}k_{59} \oplus k_{66}k_{65}k_{64}k_{59} \oplus k_{74}k_{66}k_{65}k_{64}k_{59} \oplus$

$k_{73}k_{72}k_{66}k_{65}k_{64}k_{59} \oplus k_{79}k_{78}k_{63}k_{59} \oplus k_{79}k_{78}k_{74}k_{63}k_{59} \oplus k_{73}k_{63}k_{59} \oplus$

$k_{79}k_{78}k_{73}k_{72}k_{63}k_{59} \oplus k_{72}k_{71}k_{63}k_{59} \oplus k_{74}k_{62}k_{59} \oplus k_{72}k_{62}k_{59} \oplus$

$k_{73}k_{72}k_{62}k_{59} \oplus k_{71}k_{70}k_{62}k_{59} \oplus k_{61}k_{59} \oplus k_{74}k_{61}k_{59} \oplus k_{79}k_{78}k_{74}k_{61}k_{59} \oplus$

$k_{72}k_{61}k_{59} \oplus k_{73}k_{72}k_{61}k_{59} \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_{59} \oplus k_{71}k_{70}k_{61}k_{59} \oplus$

$k_{62}k_{61}k_{59} \oplus k_{79}k_{78}k_{60}k_{59} \oplus k_{74}k_{60}k_{59} \oplus k_{79}k_{78}k_{74}k_{60}k_{59} \oplus$

$k_{79}k_{78}k_{73}k_{60}k_{59} \oplus k_{72}k_{60}k_{59} \oplus k_{73}k_{72}k_{60}k_{59} \oplus k_{79}k_{78}k_{73}k_{72}k_{60}k_{59}\oplus$

$k_{71}k_{60}k_{59} \oplus k_{74}k_{71}k_{60}k_{59} \oplus k_{72}k_{71}k_{60}k_{59} \oplus k_{79}k_{78}k_{72}k_{71}k_{60}k_{59}\oplus$

$k_{73}k_{72}k_{71}k_{60}k_{59} \oplus k_{70}k_{69}k_{60}k_{59} \oplus k_{74}k_{70}k_{69}k_{60}k_{59} \oplus k_{72}k_{70}k_{69}k_{60}k_{59}\oplus$

$k_{73}k_{72}k_{70}k_{69}k_{60}k_{59} \oplus k_{71}k_{70}k_{69}k_{60}k_{59} \oplus k_{79}k_{78}k_{62}k_{60}k_{59}\oplus$

$k_{79}k_{78}k_{74}k_{62}k_{60}k_{59} \oplus k_{72}k_{62}k_{60}k_{59} \oplus k_{79}k_{78}k_{73}k_{72}k_{62}k_{60}k_{59}\oplus$

$k_{79}k_{78}k_{71}k_{62}k_{60}k_{59} \oplus k_{79}k_{78}k_{74}k_{71}k_{62}k_{60}k_{59} \oplus k_{73}k_{71}k_{62}k_{60}k_{59}\oplus$

$k_{72}k_{71}k_{62}k_{60}k_{59} \oplus k_{79}k_{78}k_{73}k_{72}k_{71}k_{62}k_{60}k_{59} \oplus k_{71}k_{70}k_{62}k_{60}k_{59}\oplus$

$k_{79}k_{78}k_{70}k_{69}k_{62}k_{60}k_{59} \oplus k_{79}k_{78}k_{74}k_{70}k_{69}k_{62}k_{60}k_{59} \oplus k_{73}k_{70}k_{69}k_{62}k_{60}k_{59}\oplus$

$k_{79}k_{78}k_{73}k_{72}k_{70}k_{69}k_{62}k_{60}k_{59} \oplus k_{72}k_{71}k_{70}k_{69}k_{62}k_{60}k_{59} \oplus k_{79}k_{78}k_{61}k_{60}k_{59}\oplus$

$k_{74}k_{61}k_{60}k_{59} \oplus k_{73}k_{61}k_{60}k_{59} \oplus k_{73}k_{72}k_{61}k_{60}k_{59} \oplus k_{71}k_{61}k_{60}k_{59}\oplus$

$k_{79}k_{78}k_{71}k_{61}k_{60}k_{59} \oplus k_{79}k_{78}k_{74}k_{71}k_{61}k_{60}k_{59} \oplus k_{73}k_{71}k_{61}k_{60}k_{59}\oplus$

$k_{79}k_{78}k_{73}k_{72}k_{71}k_{61}k_{60}k_{59} \oplus k_{70}k_{69}k_{61}k_{60}k_{59} \oplus k_{79}k_{78}k_{70}k_{69}k_{61}k_{60}k_{59}\oplus$

$k_{79}k_{78}k_{74}k_{70}k_{69}k_{61}k_{60}k_{59} \oplus k_{73}k_{70}k_{69}k_{61}k_{60}k_{59}\oplus$

$k_{79}k_{78}k_{73}k_{72}k_{70}k_{69}k_{61}k_{60}k_{59} \oplus k_{72}k_{71}k_{70}k_{69}k_{61}k_{60}k_{59} \oplus k_{79}k_{78}k_{58}\oplus$

$k_{76}k_{58} \oplus k_{76}k_{75}k_{58} \oplus k_{74}k_{58} \oplus k_{79}k_{78}k_{73}k_{58} \oplus k_{74}k_{73}k_{58} \oplus k_{76}k_{74}k_{73}k_{58}\oplus$

$k_{75}k_{74}k_{73}k_{58} \oplus k_{72}k_{58} \oplus k_{79}k_{78}k_{72}k_{71}k_{58} \oplus k_{74}k_{72}k_{71}k_{58} \oplus k_{73}k_{72}k_{71}k_{58}\oplus$

$k_{71}k_{70}k_{58} \oplus k_{68}k_{58} \oplus k_{74}k_{68}k_{58} \oplus k_{73}k_{72}k_{68}k_{58} \oplus k_{67}k_{58} \oplus k_{74}k_{67}k_{58}\oplus$

$k_{73}k_{72}k_{67}k_{58} \oplus k_{67}k_{65}k_{64}k_{58} \oplus k_{74}k_{67}k_{65}k_{64}k_{58} \oplus k_{73}k_{72}k_{67}k_{65}k_{64}k_{58}\oplus$

$k_{66}k_{65}k_{64}k_{58} \oplus k_{74}k_{66}k_{65}k_{64}k_{58} \oplus k_{73}k_{72}k_{66}k_{65}k_{64}k_{58} \oplus k_{63}k_{58}\oplus$

$k_{78}k_{63}k_{58} \oplus k_{79}k_{78}k_{63}k_{58} \oplus k_{77}k_{76}k_{63}k_{58} \oplus k_{79}k_{78}k_{74}k_{63}k_{58} \oplus k_{73}k_{63}k_{58}\oplus$

$k_{72}k_{63}k_{58} \oplus k_{79}k_{78}k_{73}k_{72}k_{63}k_{58} \oplus k_{72}k_{71}k_{63}k_{58} \oplus k_{71}k_{70}k_{63}k_{58}\oplus$

$k_{77}k_{62}k_{58} \oplus k_{76}k_{62}k_{58} \oplus k_{75}k_{62}k_{58} \oplus k_{74}k_{62}k_{58} \oplus k_{73}k_{62}k_{58}\oplus$

$k_{74}k_{73}k_{62}k_{58} \oplus k_{76}k_{74}k_{73}k_{62}k_{58} \oplus k_{75}k_{74}k_{73}k_{62}k_{58} \oplus k_{72}k_{62}k_{58}\oplus$

$k_{73}k_{72}k_{62}k_{58} \oplus k_{72}k_{71}k_{62}k_{58} \oplus k_{71}k_{70}k_{62}k_{58} \oplus k_{77}k_{61}k_{58} \oplus k_{76}k_{61}k_{58}\oplus$

$k_{74}k_{61}k_{58} \oplus k_{79}k_{78}k_{74}k_{61}k_{58} \oplus k_{73}k_{61}k_{58} \oplus k_{76}k_{74}k_{73}k_{61}k_{58}\oplus$

$k_{75}k_{74}k_{73}k_{61}k_{58} \oplus k_{72}k_{61}k_{58} \oplus k_{73}k_{72}k_{61}k_{58} \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_{58}\oplus$

$k_{72}k_{71}k_{61}k_{58} \oplus k_{71}k_{70}k_{61}k_{58} \oplus k_{78}k_{62}k_{61}k_{58} \oplus k_{77}k_{76}k_{62}k_{61}k_{58}\oplus$

$k_{79}k_{78}k_{61}k_{60}k_{58} \oplus k_{77}k_{61}k_{60}k_{58} \oplus k_{76}k_{61}k_{60}k_{58} \oplus k_{75}k_{61}k_{60}k_{58}\oplus$

$k_{74}k_{61}k_{60}k_{58} \oplus k_{79}k_{78}k_{74}k_{61}k_{60}k_{58} \oplus k_{74}k_{73}k_{61}k_{60}k_{58}\oplus$

$k_{76}k_{74}k_{73}k_{61}k_{60}k_{58} \oplus k_{75}k_{74}k_{73}k_{61}k_{60}k_{58} \oplus k_{73}k_{72}k_{61}k_{60}k_{58}\oplus$

$k_{79}k_{78}k_{73}k_{72}k_{61}k_{60}k_{58} \oplus k_{59}k_{58} \oplus k_{79}k_{78}k_{59}k_{58} \oplus k_{73}k_{59}k_{58} \oplus k_{72}k_{59}k_{58}\oplus$

$k_{71}k_{59}k_{58} \oplus k_{72}k_{71}k_{59}k_{58} \oplus k_{71}k_{70}k_{59}k_{58} \oplus k_{70}k_{69}k_{59}k_{58} \oplus k_{77}k_{60}k_{59}k_{58}\oplus$

$k_{76}k_{60}k_{59}k_{58} \oplus k_{74}k_{60}k_{59}k_{58} \oplus k_{73}k_{60}k_{59}k_{58} \oplus k_{76}k_{74}k_{73}k_{60}k_{59}k_{58}\oplus$

$k_{75}k_{74}k_{73}k_{60}k_{59}k_{58} \oplus k_{72}k_{60}k_{59}k_{58} \oplus k_{73}k_{72}k_{60}k_{59}k_{58} \oplus k_{72}k_{71}k_{60}k_{59}k_{58}\oplus$

$k_{71}k_{70}k_{60}k_{59}k_{58} \oplus k_{79}k_{78}k_{62}k_{60}k_{59}k_{58} \oplus k_{79}k_{78}k_{74}k_{62}k_{60}k_{59}k_{58}\oplus$

$k_{73}k_{62}k_{60}k_{59}k_{58} \oplus k_{72}k_{62}k_{60}k_{59}k_{58} \oplus k_{79}k_{78}k_{73}k_{72}k_{62}k_{60}k_{59}k_{58}\oplus$

$$k_{72}k_{71}k_{62}k_{60}k_{59}k_{58} \oplus k_{71}k_{70}k_{62}k_{60}k_{59}k_{58} \oplus k_{61}k_{60}k_{59}k_{58} \oplus$$

$$k_{79}k_{78}k_{61}k_{60}k_{59}k_{58} \oplus k_{79}k_{78}k_{74}k_{61}k_{60}k_{59}k_{58} \oplus k_{73}k_{61}k_{60}k_{59}k_{58} \oplus$$

$$k_{72}k_{61}k_{60}k_{59}k_{58} \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_{60}k_{59}k_{58} \oplus k_{72}k_{71}k_{61}k_{60}k_{59}k_{58} \oplus$$

$$k_{71}k_{70}k_{61}k_{60}k_{59}k_{58} \oplus k_{57} \oplus k_{73}k_{57} \oplus k_{72}k_{71}k_{57} \oplus k_{61}k_{57} \oplus k_{60}k_{57} \oplus$$

$$k_{58}k_{57} \oplus k_{75}k_{58}k_{57} \oplus k_{74}k_{58}k_{57} \oplus k_{79}k_{78}k_{73}k_{58}k_{57} \oplus k_{72}k_{58}k_{57} \oplus$$

$$k_{71}k_{58}k_{57} \oplus k_{79}k_{78}k_{72}k_{71}k_{58}k_{57} \oplus k_{74}k_{72}k_{71}k_{58}k_{57} \oplus k_{73}k_{72}k_{71}k_{58}k_{57} \oplus$$

$$k_{71}k_{70}k_{58}k_{57} \oplus k_{70}k_{69}k_{58}k_{57} \oplus k_{68}k_{58}k_{57} \oplus k_{74}k_{68}k_{58}k_{57} \oplus$$

$$k_{73}k_{72}k_{68}k_{58}k_{57} \oplus k_{67}k_{58}k_{57} \oplus k_{74}k_{67}k_{58}k_{57} \oplus k_{73}k_{72}k_{67}k_{58}k_{57} \oplus$$

$$k_{67}k_{65}k_{64}k_{58}k_{57} \oplus k_{74}k_{67}k_{65}k_{64}k_{58}k_{57} \oplus k_{73}k_{72}k_{67}k_{65}k_{64}k_{58}k_{57} \oplus$$

$$k_{66}k_{65}k_{64}k_{58}k_{57} \oplus k_{74}k_{66}k_{65}k_{64}k_{58}k_{57} \oplus k_{73}k_{72}k_{66}k_{65}k_{64}k_{58}k_{57} \oplus$$

$$k_{79}k_{78}k_{63}k_{58}k_{57} \oplus k_{79}k_{78}k_{74}k_{63}k_{58}k_{57} \oplus k_{73}k_{63}k_{58}k_{57} \oplus$$

$$k_{79}k_{78}k_{73}k_{72}k_{63}k_{58}k_{57} \oplus k_{72}k_{71}k_{63}k_{58}k_{57} \oplus k_{74}k_{62}k_{58}k_{57} \oplus k_{72}k_{62}k_{58}k_{57} \oplus$$

$$k_{73}k_{72}k_{62}k_{58}k_{57} \oplus k_{71}k_{70}k_{62}k_{58}k_{57} \oplus k_{61}k_{58}k_{57} \oplus k_{74}k_{61}k_{58}k_{57} \oplus$$

$$k_{79}k_{78}k_{74}k_{61}k_{58}k_{57} \oplus k_{72}k_{61}k_{58}k_{57} \oplus k_{73}k_{72}k_{61}k_{58}k_{57} \oplus$$

$$k_{79}k_{78}k_{73}k_{72}k_{61}k_{58}k_{57} \oplus k_{71}k_{70}k_{61}k_{58}k_{57} \oplus k_{62}k_{61}k_{58}k_{57} \oplus k_{60}k_{58}k_{57} \oplus$$

$$k_{61}k_{60}k_{58}k_{57} \oplus k_{79}k_{78}k_{61}k_{60}k_{58}k_{57} \oplus k_{74}k_{61}k_{60}k_{58}k_{57} \oplus$$

$$k_{79}k_{78}k_{74}k_{61}k_{60}k_{58}k_{57} \oplus k_{73}k_{61}k_{60}k_{58}k_{57} \oplus k_{72}k_{61}k_{60}k_{58}k_{57} \oplus$$

$$k_{73}k_{72}k_{61}k_{60}k_{58}k_{57} \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_{60}k_{58}k_{57} \oplus k_{72}k_{71}k_{61}k_{60}k_{58}k_{57} \oplus$$

$$k_{71}k_{70}k_{61}k_{60}k_{58}k_{57} \oplus k_{59}k_{58}k_{57} \oplus k_{60}k_{59}k_{58}k_{57} \oplus k_{74}k_{60}k_{59}k_{58}k_{57} \oplus$$

$$k_{72}k_{60}k_{59}k_{58}k_{57} \oplus k_{73}k_{72}k_{60}k_{59}k_{58}k_{57} \oplus k_{71}k_{70}k_{60}k_{59}k_{58}k_{57} \oplus$$

$$k_{79}k_{78}k_{62}k_{60}k_{59}k_{58}k_{57} \oplus k_{79}k_{78}k_{74}k_{62}k_{60}k_{59}k_{58}k_{57} \oplus k_{73}k_{62}k_{60}k_{59}k_{58}k_{57} \oplus$$

$$k_{79}k_{78}k_{73}k_{72}k_{62}k_{60}k_{59}k_{58}k_{57} \oplus k_{72}k_{71}k_{62}k_{60}k_{59}k_{58}k_{57} \oplus k_{61}k_{60}k_{59}k_{58}k_{57} \oplus$$

$$k_{79}k_{78}k_{61}k_{60}k_{59}k_{58}k_{57} \oplus k_{79}k_{78}k_{74}k_{61}k_{60}k_{59}k_{58}k_{57} \oplus k_{73}k_{61}k_{60}k_{59}k_{58}k_{57} \oplus$$

$$k_{79}k_{78}k_{73}k_{72}k_{61}k_{60}k_{59}k_{58}k_{57} \oplus k_{72}k_{71}k_{61}k_{60}k_{59}k_{58}k_{57} \oplus k_{56} \oplus k_{74}k_{56} \oplus$$

$$k_{73}k_{56} \oplus k_{73}k_{72}k_{56} \oplus k_{72}k_{71}k_{56} \oplus k_{62}k_{56} \oplus k_{60}k_{56} \oplus k_{62}k_{60}k_{56} \oplus$$

$$k_{79}k_{78}k_{55} \oplus k_{79}k_{78}k_{74}k_{55} \oplus k_{73}k_{55} \oplus k_{79}k_{78}k_{73}k_{72}k_{55} \oplus k_{71}k_{55} \oplus$$

$$k_{79}k_{78}k_{74}k_{71}k_{55} \oplus k_{72}k_{71}k_{55} \oplus k_{79}k_{78}k_{73}k_{72}k_{71}k_{55} \oplus k_{70}k_{69}k_{55} \oplus$$

$$k_{79}k_{78}k_{74}k_{70}k_{69}k_{55} \oplus k_{79}k_{78}k_{73}k_{72}k_{70}k_{69}k_{55} \oplus k_{79}k_{78}k_{62}k_{55} \oplus k_{71}k_{62}k_{55} \oplus$$

$$k_{70}k_{69}k_{62}k_{55} \oplus k_{79}k_{78}k_{61}k_{55} \oplus k_{71}k_{61}k_{55} \oplus k_{70}k_{69}k_{61}k_{55} \oplus$$

$$k_{79}k_{78}k_{61}k_{60}k_{55} \oplus k_{71}k_{61}k_{60}k_{55} \oplus k_{70}k_{69}k_{61}k_{60}k_{55} \oplus k_{59}k_{55} \oplus$$

$$k_{79}k_{78}k_{74}k_{59}k_{55} \oplus k_{79}k_{78}k_{73}k_{72}k_{59}k_{55} \oplus k_{62}k_{59}k_{55} \oplus k_{61}k_{59}k_{55} \oplus$$

$$k_{60}k_{59}k_{55} \oplus k_{79}k_{78}k_{60}k_{59}k_{55} \oplus k_{71}k_{60}k_{59}k_{55} \oplus k_{70}k_{69}k_{60}k_{59}k_{55} \oplus$$

$$k_{61}k_{60}k_{59}k_{55} \oplus k_{58}k_{55} \oplus k_{79}k_{78}k_{74}k_{58}k_{55} \oplus k_{79}k_{78}k_{73}k_{72}k_{58}k_{55} \oplus$$

$$k_{62}k_{58}k_{55} \oplus k_{61}k_{58}k_{55} \oplus k_{61}k_{60}k_{58}k_{55} \oplus k_{60}k_{59}k_{58}k_{55} \oplus k_{58}k_{57}k_{55} \oplus$$

$$k_{79}k_{78}k_{74}k_{58}k_{57}k_{55} \oplus k_{79}k_{78}k_{73}k_{72}k_{58}k_{57}k_{55} \oplus k_{62}k_{58}k_{57}k_{55} \oplus$$

$$k_{61}k_{58}k_{57}k_{55} \oplus k_{61}k_{60}k_{58}k_{57}k_{55} \oplus k_{60}k_{59}k_{58}k_{57}k_{55} \oplus k_{56}k_{55} \oplus k_{73}k_{56}k_{55} \oplus$$

$k_{72}k_{71}k_{56}k_{55} \oplus k_{60}k_{56}k_{55} \oplus k_{54} \oplus k_{77}k_{54} \oplus k_{75}k_{54} \oplus k_{75}k_{74}k_{54} \oplus$

$k_{74}k_{73}k_{54} \oplus k_{76}k_{74}k_{73}k_{54} \oplus k_{75}k_{74}k_{73}k_{54} \oplus k_{71}k_{54} \oplus k_{73}k_{71}k_{54} \oplus$

$k_{72}k_{71}k_{54} \oplus k_{70}k_{69}k_{54} \oplus k_{73}k_{70}k_{69}k_{54} \oplus k_{72}k_{71}k_{70}k_{69}k_{54} \oplus k_{74}k_{63}k_{54} \oplus$

$k_{73}k_{72}k_{63}k_{54} \oplus k_{71}k_{63}k_{54} \oplus k_{70}k_{69}k_{63}k_{54} \oplus k_{76}k_{62}k_{54} \oplus k_{75}k_{74}k_{62}k_{54} \oplus$

$k_{71}k_{62}k_{54} \oplus k_{74}k_{71}k_{62}k_{54} \oplus k_{73}k_{72}k_{71}k_{62}k_{54} \oplus k_{70}k_{69}k_{62}k_{54} \oplus$

$k_{74}k_{70}k_{69}k_{62}k_{54} \oplus k_{73}k_{72}k_{70}k_{69}k_{62}k_{54} \oplus k_{61}k_{54} \oplus k_{71}k_{61}k_{54} \oplus$

$k_{74}k_{71}k_{61}k_{54} \oplus k_{73}k_{72}k_{71}k_{61}k_{54} \oplus k_{70}k_{69}k_{61}k_{54} \oplus k_{74}k_{70}k_{69}k_{61}k_{54} \oplus$

$k_{73}k_{72}k_{70}k_{69}k_{61}k_{54} \oplus k_{76}k_{61}k_{60}k_{54} \oplus k_{74}k_{61}k_{60}k_{54} \oplus k_{75}k_{74}k_{61}k_{60}k_{54} \oplus$

$k_{73}k_{72}k_{61}k_{60}k_{54} \oplus k_{74}k_{71}k_{61}k_{60}k_{54} \oplus k_{73}k_{72}k_{71}k_{61}k_{60}k_{54} \oplus$

$k_{74}k_{70}k_{69}k_{61}k_{60}k_{54} \oplus k_{73}k_{72}k_{70}k_{69}k_{61}k_{60}k_{54} \oplus k_{59}k_{54} \oplus k_{73}k_{59}k_{54} \oplus$

$k_{72}k_{71}k_{59}k_{54} \oplus k_{63}k_{59}k_{54} \oplus k_{62}k_{59}k_{54} \oplus k_{74}k_{62}k_{59}k_{54} \oplus k_{73}k_{72}k_{62}k_{59}k_{54} \oplus$

$k_{61}k_{59}k_{54} \oplus k_{74}k_{61}k_{59}k_{54} \oplus k_{73}k_{72}k_{61}k_{59}k_{54} \oplus k_{74}k_{60}k_{59}k_{54} \oplus$

$k_{73}k_{72}k_{60}k_{59}k_{54} \oplus k_{71}k_{60}k_{59}k_{54} \oplus k_{74}k_{71}k_{60}k_{59}k_{54} \oplus k_{73}k_{72}k_{71}k_{60}k_{59}k_{54} \oplus$

$k_{70}k_{69}k_{60}k_{59}k_{54} \oplus k_{74}k_{70}k_{69}k_{60}k_{59}k_{54} \oplus k_{73}k_{72}k_{70}k_{69}k_{60}k_{59}k_{54} \oplus$

$k_{62}k_{60}k_{59}k_{54} \oplus k_{74}k_{62}k_{60}k_{59}k_{54} \oplus k_{73}k_{72}k_{62}k_{60}k_{59}k_{54} \oplus k_{71}k_{62}k_{60}k_{59}k_{54} \oplus$

$k_{70}k_{69}k_{62}k_{60}k_{59}k_{54} \oplus k_{61}k_{60}k_{59}k_{54} \oplus k_{71}k_{61}k_{60}k_{59}k_{54} \oplus$

$k_{70}k_{69}k_{61}k_{60}k_{59}k_{54} \oplus k_{73}k_{58}k_{54} \oplus k_{72}k_{71}k_{58}k_{54} \oplus k_{63}k_{58}k_{54} \oplus k_{62}k_{58}k_{54} \oplus$

$k_{74}k_{62}k_{58}k_{54} \oplus k_{73}k_{72}k_{62}k_{58}k_{54} \oplus k_{61}k_{58}k_{54} \oplus k_{74}k_{61}k_{58}k_{54} \oplus$

$k_{73}k_{72}k_{61}k_{58}k_{54} \oplus k_{74}k_{61}k_{60}k_{58}k_{54} \oplus k_{73}k_{72}k_{61}k_{60}k_{58}k_{54} \oplus k_{60}k_{59}k_{58}k_{54} \oplus$

$k_{74}k_{60}k_{59}k_{58}k_{54} \oplus k_{73}k_{72}k_{60}k_{59}k_{58}k_{54} \oplus k_{62}k_{60}k_{59}k_{58}k_{54} \oplus$

$k_{61}k_{60}k_{59}k_{58}k_{54} \oplus k_{58}k_{57}k_{54} \oplus k_{73}k_{58}k_{57}k_{54} \oplus k_{72}k_{71}k_{58}k_{57}k_{54} \oplus$

$k_{63}k_{58}k_{57}k_{54} \oplus k_{62}k_{58}k_{57}k_{54} \oplus k_{74}k_{62}k_{58}k_{57}k_{54} \oplus k_{73}k_{72}k_{62}k_{58}k_{57}k_{54} \oplus$

$k_{61}k_{58}k_{57}k_{54} \oplus k_{74}k_{61}k_{58}k_{57}k_{54} \oplus k_{73}k_{72}k_{61}k_{58}k_{57}k_{54} \oplus$

$k_{74}k_{61}k_{60}k_{58}k_{57}k_{54} \oplus k_{73}k_{72}k_{61}k_{60}k_{58}k_{57}k_{54} \oplus k_{60}k_{59}k_{58}k_{57}k_{54} \oplus$

$k_{74}k_{60}k_{59}k_{58}k_{57}k_{54} \oplus k_{73}k_{72}k_{60}k_{59}k_{58}k_{57}k_{54} \oplus k_{62}k_{60}k_{59}k_{58}k_{57}k_{54} \oplus$

$k_{61}k_{60}k_{59}k_{58}k_{57}k_{54} \oplus k_{55}k_{54} \oplus k_{79}k_{53} \oplus k_{77}k_{53} \oplus k_{79}k_{77}k_{53} \oplus k_{79}k_{76}k_{53} \oplus$

$k_{78}k_{77}k_{76}k_{53} \oplus k_{75}k_{53} \oplus k_{76}k_{75}k_{53} \oplus k_{79}k_{76}k_{75}k_{53} \oplus k_{78}k_{77}k_{76}k_{75}k_{53} \oplus$

$k_{74}k_{53} \oplus k_{79}k_{75}k_{74}k_{53} \oplus k_{78}k_{77}k_{75}k_{74}k_{53} \oplus k_{73}k_{53} \oplus k_{71}k_{53} \oplus k_{74}k_{71}k_{53} \oplus$

$k_{73}k_{71}k_{53} \oplus k_{74}k_{72}k_{71}k_{53} \oplus k_{70}k_{69}k_{53} \oplus k_{74}k_{70}k_{69}k_{53} \oplus k_{73}k_{70}k_{69}k_{53} \oplus$

$k_{73}k_{72}k_{70}k_{69}k_{53} \oplus k_{72}k_{71}k_{70}k_{69}k_{53} \oplus k_{63}k_{53} \oplus k_{71}k_{63}k_{53} \oplus k_{74}k_{71}k_{63}k_{53} \oplus$

$k_{73}k_{72}k_{71}k_{63}k_{53} \oplus k_{70}k_{69}k_{63}k_{53} \oplus k_{74}k_{70}k_{69}k_{63}k_{53} \oplus k_{73}k_{72}k_{70}k_{69}k_{63}k_{53} \oplus$

$k_{62}k_{53} \oplus k_{74}k_{62}k_{53} \oplus k_{73}k_{62}k_{53} \oplus k_{73}k_{72}k_{62}k_{53} \oplus k_{72}k_{71}k_{62}k_{53} \oplus k_{61}k_{53} \oplus$

$k_{73}k_{61}k_{53} \oplus k_{74}k_{71}k_{61}k_{53} \oplus k_{72}k_{71}k_{61}k_{53} \oplus k_{73}k_{72}k_{71}k_{61}k_{53} \oplus$

$k_{74}k_{70}k_{69}k_{61}k_{53} \oplus k_{73}k_{72}k_{70}k_{69}k_{61}k_{53} \oplus k_{60}k_{53} \oplus k_{74}k_{61}k_{60}k_{53} \oplus$

$k_{73}k_{61}k_{60}k_{53} \oplus k_{73}k_{72}k_{61}k_{60}k_{53} \oplus k_{71}k_{61}k_{60}k_{53} \oplus k_{74}k_{71}k_{61}k_{60}k_{53} \oplus$

$k_{72}k_{71}k_{61}k_{60}k_{53} \oplus k_{73}k_{72}k_{71}k_{61}k_{60}k_{53} \oplus k_{70}k_{69}k_{61}k_{60}k_{53} \oplus$

$$k_{74}k_{70}k_{69}k_{61}k_{60}k_{53} \oplus k_{73}k_{72}k_{70}k_{69}k_{61}k_{60}k_{53} \oplus k_{59}k_{53} \oplus k_{74}k_{59}k_{53}\oplus$$

$$k_{73}k_{59}k_{53} \oplus k_{73}k_{72}k_{59}k_{53} \oplus k_{72}k_{71}k_{59}k_{53} \oplus k_{63}k_{59}k_{53} \oplus k_{74}k_{63}k_{59}k_{53}\oplus$$

$$k_{73}k_{72}k_{63}k_{59}k_{53} \oplus k_{74}k_{61}k_{59}k_{53} \oplus k_{73}k_{72}k_{61}k_{59}k_{53} \oplus k_{60}k_{59}k_{53}\oplus$$

$$k_{74}k_{60}k_{59}k_{53} \oplus k_{73}k_{60}k_{59}k_{53} \oplus k_{73}k_{72}k_{60}k_{59}k_{53} \oplus k_{72}k_{71}k_{60}k_{59}k_{53}\oplus$$

$$k_{62}k_{60}k_{59}k_{53} \oplus k_{74}k_{62}k_{60}k_{59}k_{53} \oplus k_{73}k_{72}k_{62}k_{60}k_{59}k_{53} \oplus k_{71}k_{62}k_{60}k_{59}k_{53}\oplus$$

$$k_{74}k_{71}k_{62}k_{60}k_{59}k_{53} \oplus k_{73}k_{72}k_{71}k_{62}k_{60}k_{59}k_{53} \oplus k_{70}k_{69}k_{62}k_{60}k_{59}k_{53}\oplus$$

$$k_{74}k_{70}k_{69}k_{62}k_{60}k_{59}k_{53} \oplus k_{73}k_{72}k_{70}k_{69}k_{62}k_{60}k_{59}k_{53} \oplus k_{61}k_{60}k_{59}k_{53}\oplus$$

$$k_{71}k_{61}k_{60}k_{59}k_{53} \oplus k_{74}k_{71}k_{61}k_{60}k_{59}k_{53} \oplus k_{73}k_{72}k_{71}k_{61}k_{60}k_{59}k_{53}\oplus$$

$$k_{70}k_{69}k_{61}k_{60}k_{59}k_{53} \oplus k_{74}k_{70}k_{69}k_{61}k_{60}k_{59}k_{53} \oplus k_{73}k_{72}k_{70}k_{69}k_{61}k_{60}k_{59}k_{53}\oplus$$

$$k_{74}k_{58}k_{53} \oplus k_{73}k_{58}k_{53} \oplus k_{73}k_{72}k_{58}k_{53} \oplus k_{72}k_{71}k_{58}k_{53} \oplus k_{63}k_{58}k_{53}\oplus$$

$$k_{74}k_{63}k_{58}k_{53} \oplus k_{73}k_{72}k_{63}k_{58}k_{53} \oplus k_{74}k_{61}k_{58}k_{53} \oplus k_{73}k_{72}k_{61}k_{58}k_{53}\oplus$$

$$k_{61}k_{60}k_{58}k_{53} \oplus k_{74}k_{61}k_{60}k_{58}k_{53} \oplus k_{73}k_{72}k_{61}k_{60}k_{58}k_{53} \oplus k_{59}k_{58}k_{53}\oplus$$

$$k_{62}k_{60}k_{59}k_{58}k_{53} \oplus k_{74}k_{62}k_{60}k_{59}k_{58}k_{53} \oplus k_{73}k_{72}k_{62}k_{60}k_{59}k_{58}k_{53}\oplus$$

$$k_{61}k_{60}k_{59}k_{58}k_{53} \oplus k_{74}k_{61}k_{60}k_{59}k_{58}k_{53} \oplus k_{73}k_{72}k_{61}k_{60}k_{59}k_{58}k_{53}\oplus$$

$$k_{58}k_{57}k_{53} \oplus k_{74}k_{58}k_{57}k_{53} \oplus k_{73}k_{58}k_{57}k_{53} \oplus k_{73}k_{72}k_{58}k_{57}k_{53}\oplus$$

$$k_{72}k_{71}k_{58}k_{57}k_{53} \oplus k_{63}k_{58}k_{57}k_{53} \oplus k_{74}k_{63}k_{58}k_{57}k_{53} \oplus k_{73}k_{72}k_{63}k_{58}k_{57}k_{53}\oplus$$

$$k_{74}k_{61}k_{58}k_{57}k_{53} \oplus k_{73}k_{72}k_{61}k_{58}k_{57}k_{53} \oplus k_{61}k_{60}k_{58}k_{57}k_{53}\oplus$$

$$k_{74}k_{61}k_{60}k_{58}k_{57}k_{53} \oplus k_{73}k_{72}k_{61}k_{60}k_{58}k_{57}k_{53} \oplus k_{62}k_{60}k_{59}k_{58}k_{57}k_{53}\oplus$$

$$k_{74}k_{62}k_{60}k_{59}k_{58}k_{57}k_{53} \oplus k_{73}k_{72}k_{62}k_{60}k_{59}k_{58}k_{57}k_{53} \oplus k_{61}k_{60}k_{59}k_{58}k_{57}k_{53}\oplus$$

$$k_{74}k_{61}k_{60}k_{59}k_{58}k_{57}k_{53} \oplus k_{73}k_{72}k_{61}k_{60}k_{59}k_{58}k_{57}k_{53} \oplus k_{55}k_{53} \oplus k_{74}k_{55}k_{53}\oplus$$

$$k_{73}k_{72}k_{55}k_{53} \oplus k_{74}k_{71}k_{55}k_{53} \oplus k_{73}k_{72}k_{71}k_{55}k_{53} \oplus k_{74}k_{70}k_{69}k_{55}k_{53}\oplus$$

$$k_{73}k_{72}k_{70}k_{69}k_{55}k_{53} \oplus k_{62}k_{55}k_{53} \oplus k_{61}k_{55}k_{53} \oplus k_{61}k_{60}k_{55}k_{53}\oplus$$

$$k_{74}k_{59}k_{55}k_{53} \oplus k_{73}k_{72}k_{59}k_{55}k_{53} \oplus k_{60}k_{59}k_{55}k_{53} \oplus k_{74}k_{58}k_{55}k_{53}\oplus$$

$$k_{73}k_{72}k_{58}k_{55}k_{53} \oplus k_{74}k_{58}k_{57}k_{55}k_{53} \oplus k_{73}k_{72}k_{58}k_{57}k_{55}k_{53} \oplus k_{79}k_{78}k_{52}\oplus$$

$$k_{77}k_{52} \oplus k_{79}k_{78}k_{77}k_{52} \oplus k_{76}k_{52} \oplus k_{79}k_{78}k_{76}k_{52} \oplus k_{76}k_{75}k_{52}\oplus$$

$$k_{79}k_{78}k_{76}k_{75}k_{52} \oplus k_{74}k_{52} \oplus k_{75}k_{74}k_{52} \oplus k_{79}k_{78}k_{75}k_{74}k_{52} \oplus k_{73}k_{72}k_{52}\oplus$$

$$k_{63}k_{52} \oplus k_{78}k_{62}k_{52} \oplus k_{77}k_{76}k_{62}k_{52} \oplus k_{62}k_{61}k_{52} \oplus k_{53}k_{52} \oplus k_{77}k_{53}k_{52}\oplus$$

$$k_{76}k_{53}k_{52} \oplus k_{76}k_{75}k_{53}k_{52} \oplus k_{74}k_{53}k_{52} \oplus k_{75}k_{74}k_{53}k_{52} \oplus k_{73}k_{72}k_{53}k_{52}\oplus$$

$$k_{77}k_{51} \oplus k_{77}k_{76}k_{51} \oplus k_{74}k_{51} \oplus k_{77}k_{75}k_{74}k_{51} \oplus k_{76}k_{75}k_{74}k_{51} \oplus k_{73}k_{72}k_{51}\oplus$$

$$k_{79}k_{62}k_{51} \oplus k_{78}k_{77}k_{62}k_{51} \oplus k_{60}k_{59}k_{51} \oplus k_{63}k_{58}k_{51} \oplus k_{62}k_{61}k_{58}k_{51}\oplus$$

$$k_{52}k_{51} \oplus k_{74}k_{52}k_{51} \oplus k_{73}k_{72}k_{52}k_{51} \oplus k_{71}k_{52}k_{51} \oplus k_{74}k_{71}k_{52}k_{51}\oplus$$

$$k_{73}k_{72}k_{71}k_{52}k_{51} \oplus k_{70}k_{69}k_{52}k_{51} \oplus k_{74}k_{70}k_{69}k_{52}k_{51} \oplus k_{73}k_{72}k_{70}k_{69}k_{52}k_{51}\oplus$$

$$k_{62}k_{52}k_{51} \oplus k_{59}k_{52}k_{51} \oplus k_{74}k_{59}k_{52}k_{51} \oplus k_{73}k_{72}k_{59}k_{52}k_{51} \oplus k_{58}k_{52}k_{51}\oplus$$

$$k_{74}k_{58}k_{52}k_{51} \oplus k_{73}k_{72}k_{58}k_{52}k_{51} \oplus k_{58}k_{57}k_{52}k_{51} \oplus k_{74}k_{58}k_{57}k_{52}k_{51}\oplus$$

$$k_{73}k_{72}k_{58}k_{57}k_{52}k_{51} \oplus k_{50} \oplus k_{79}k_{50} \oplus k_{78}k_{50} \oplus k_{78}k_{77}k_{50} \oplus k_{79}k_{78}k_{77}k_{50}\oplus$$

$$k_{76}k_{50} \oplus k_{78}k_{76}k_{50} \oplus k_{74}k_{50} \oplus k_{75}k_{74}k_{50} \oplus k_{78}k_{75}k_{74}k_{50}\oplus$$

$k_{77}k_{76}k_{75}k_{74}k_{50} \oplus k_{73}k_{50} \oplus k_{73}k_{72}k_{50} \oplus k_{72}k_{71}k_{50} \oplus k_{74}k_{64}k_{50} \oplus$

$k_{73}k_{72}k_{64}k_{50} \oplus k_{62}k_{50} \oplus k_{76}k_{62}k_{50} \oplus k_{75}k_{62}k_{50} \oplus k_{75}k_{74}k_{62}k_{50} \oplus$

$k_{74}k_{73}k_{62}k_{50} \oplus k_{74}k_{63}k_{62}k_{50} \oplus k_{73}k_{72}k_{63}k_{62}k_{50} \oplus k_{61}k_{50} \oplus k_{62}k_{61}k_{50} \oplus$

$k_{61}k_{60}k_{50} \oplus k_{75}k_{61}k_{60}k_{50} \oplus k_{74}k_{73}k_{61}k_{60}k_{50} \oplus k_{60}k_{59}k_{50} \oplus k_{62}k_{60}k_{59}k_{50} \oplus$

$k_{61}k_{60}k_{59}k_{50} \oplus k_{62}k_{58}k_{50} \oplus k_{61}k_{58}k_{50} \oplus k_{61}k_{60}k_{58}k_{50} \oplus k_{60}k_{59}k_{58}k_{50} \oplus$

$k_{54}k_{50} \oplus k_{53}k_{50} \oplus k_{79}k_{53}k_{50} \oplus k_{78}k_{77}k_{53}k_{50} \oplus k_{52}k_{50} \oplus k_{79}k_{78}k_{52}k_{50} \oplus$

$k_{53}k_{52}k_{50} \oplus k_{51}k_{50} \oplus k_{76}k_{51}k_{50} \oplus k_{75}k_{74}k_{51}k_{50} \oplus k_{79}k_{49} \oplus k_{79}k_{78}k_{49} \oplus$

$k_{79}k_{78}k_{77}k_{49} \oplus k_{77}k_{76}k_{49} \oplus k_{75}k_{49} \oplus k_{78}k_{76}k_{75}k_{49} \oplus k_{77}k_{76}k_{75}k_{49} \oplus$

$k_{74}k_{73}k_{49} \oplus k_{63}k_{49} \oplus k_{62}k_{49} \oplus k_{77}k_{62}k_{49} \oplus k_{75}k_{62}k_{49} \oplus k_{76}k_{75}k_{62}k_{49} \oplus$

$k_{74}k_{73}k_{62}k_{49} \oplus k_{62}k_{61}k_{49} \oplus k_{61}k_{60}k_{49} \oplus k_{75}k_{61}k_{60}k_{49} \oplus k_{74}k_{73}k_{61}k_{60}k_{49} \oplus$

$k_{58}k_{49} \oplus k_{75}k_{58}k_{49} \oplus k_{74}k_{73}k_{58}k_{49} \oplus k_{62}k_{58}k_{49} \oplus k_{75}k_{62}k_{58}k_{49} \oplus$

$k_{74}k_{73}k_{62}k_{58}k_{49} \oplus k_{61}k_{58}k_{49} \oplus k_{75}k_{61}k_{58}k_{49} \oplus k_{74}k_{73}k_{61}k_{58}k_{49} \oplus$

$k_{61}k_{60}k_{58}k_{49} \oplus k_{75}k_{61}k_{60}k_{58}k_{49} \oplus k_{74}k_{73}k_{61}k_{60}k_{58}k_{49} \oplus k_{60}k_{59}k_{58}k_{49} \oplus$

$k_{75}k_{60}k_{59}k_{58}k_{49} \oplus k_{74}k_{73}k_{60}k_{59}k_{58}k_{49} \oplus k_{75}k_{54}k_{49} \oplus k_{74}k_{73}k_{54}k_{49} \oplus$

$k_{62}k_{54}k_{49} \oplus k_{61}k_{60}k_{54}k_{49} \oplus k_{79}k_{53}k_{49} \oplus k_{78}k_{77}k_{53}k_{49} \oplus k_{52}k_{49} \oplus$

$k_{79}k_{78}k_{52}k_{49} \oplus k_{53}k_{52}k_{49} \oplus k_{77}k_{51}k_{49} \oplus k_{76}k_{75}k_{51}k_{49} \oplus k_{78}k_{50}k_{49} \oplus$

$k_{77}k_{76}k_{50}k_{49} \oplus k_{62}k_{50}k_{49} \oplus k_{51}k_{50}k_{49} \oplus k_{48} \oplus k_{79}k_{78}k_{48} \oplus k_{77}k_{48} \oplus$

$k_{76}k_{75}k_{48} \oplus k_{74}k_{48} \oplus k_{73}k_{72}k_{48} \oplus k_{71}k_{48} \oplus k_{79}k_{78}k_{71}k_{48} \oplus$

$k_{79}k_{78}k_{74}k_{71}k_{48} \oplus k_{73}k_{71}k_{48} \oplus k_{72}k_{71}k_{48} \oplus k_{79}k_{78}k_{73}k_{72}k_{71}k_{48} \oplus$

$k_{70}k_{69}k_{48} \oplus k_{79}k_{78}k_{70}k_{69}k_{48} \oplus k_{79}k_{78}k_{74}k_{70}k_{69}k_{48} \oplus k_{73}k_{70}k_{69}k_{48} \oplus$

$k_{79}k_{78}k_{73}k_{72}k_{70}k_{69}k_{48} \oplus k_{72}k_{71}k_{70}k_{69}k_{48} \oplus k_{63}k_{48} \oplus k_{62}k_{48} \oplus k_{77}k_{62}k_{48} \oplus$

$k_{76}k_{62}k_{48} \oplus k_{76}k_{75}k_{62}k_{48} \oplus k_{75}k_{74}k_{62}k_{48} \oplus k_{62}k_{61}k_{48} \oplus k_{61}k_{60}k_{48} \oplus$

$k_{77}k_{61}k_{60}k_{48} \oplus k_{76}k_{61}k_{60}k_{48} \oplus k_{76}k_{75}k_{61}k_{60}k_{48} \oplus k_{75}k_{74}k_{61}k_{60}k_{48} \oplus$

$k_{59}k_{48} \oplus k_{79}k_{78}k_{59}k_{48} \oplus k_{79}k_{78}k_{74}k_{59}k_{48} \oplus k_{73}k_{59}k_{48} \oplus$

$k_{79}k_{78}k_{73}k_{72}k_{59}k_{48} \oplus k_{72}k_{71}k_{59}k_{48} \oplus k_{58}k_{48} \oplus k_{79}k_{78}k_{58}k_{48} \oplus k_{76}k_{58}k_{48} \oplus$

$k_{79}k_{78}k_{74}k_{58}k_{48} \oplus k_{75}k_{74}k_{58}k_{48} \oplus k_{73}k_{58}k_{48} \oplus k_{72}k_{58}k_{48} \oplus$

$k_{79}k_{78}k_{73}k_{72}k_{58}k_{48} \oplus k_{72}k_{71}k_{58}k_{48} \oplus k_{71}k_{70}k_{58}k_{48} \oplus k_{62}k_{58}k_{48} \oplus$

$k_{76}k_{62}k_{58}k_{48} \oplus k_{75}k_{74}k_{62}k_{58}k_{48} \oplus k_{76}k_{61}k_{58}k_{48} \oplus k_{75}k_{74}k_{61}k_{58}k_{48} \oplus$

$k_{61}k_{60}k_{58}k_{48} \oplus k_{76}k_{61}k_{60}k_{58}k_{48} \oplus k_{75}k_{74}k_{61}k_{60}k_{58}k_{48} \oplus k_{76}k_{60}k_{59}k_{58}k_{48} \oplus$

$k_{75}k_{74}k_{60}k_{59}k_{58}k_{48} \oplus k_{58}k_{57}k_{48} \oplus k_{79}k_{78}k_{58}k_{57}k_{48} \oplus k_{79}k_{78}k_{74}k_{58}k_{57}k_{48} \oplus$

$k_{73}k_{58}k_{57}k_{48} \oplus k_{79}k_{78}k_{73}k_{72}k_{58}k_{57}k_{48} \oplus k_{72}k_{71}k_{58}k_{57}k_{48} \oplus k_{54}k_{48} \oplus$

$k_{76}k_{54}k_{48} \oplus k_{74}k_{54}k_{48} \oplus k_{75}k_{74}k_{54}k_{48} \oplus k_{73}k_{72}k_{54}k_{48} \oplus k_{71}k_{54}k_{48} \oplus$

$k_{70}k_{69}k_{54}k_{48} \oplus k_{59}k_{54}k_{48} \oplus k_{58}k_{54}k_{48} \oplus k_{58}k_{57}k_{54}k_{48} \oplus k_{53}k_{48} \oplus$

$k_{71}k_{53}k_{48} \oplus k_{74}k_{71}k_{53}k_{48} \oplus k_{73}k_{72}k_{71}k_{53}k_{48} \oplus k_{70}k_{69}k_{53}k_{48} \oplus$

$k_{74}k_{70}k_{69}k_{53}k_{48} \oplus k_{73}k_{72}k_{70}k_{69}k_{53}k_{48} \oplus k_{59}k_{53}k_{48} \oplus k_{74}k_{59}k_{53}k_{48} \oplus$

$k_{73}k_{72}k_{59}k_{53}k_{48} \oplus k_{58}k_{53}k_{48} \oplus k_{74}k_{58}k_{53}k_{48} \oplus k_{73}k_{72}k_{58}k_{53}k_{48} \oplus$

$k_{58}k_{57}k_{53}k_{48} \oplus k_{74}k_{58}k_{57}k_{53}k_{48} \oplus k_{73}k_{72}k_{58}k_{57}k_{53}k_{48} \oplus k_{50}k_{48}\oplus$

$k_{62}k_{50}k_{48} \oplus k_{61}k_{60}k_{50}k_{48} \oplus k_{49}k_{48} \oplus k_{76}k_{49}k_{48} \oplus k_{75}k_{49}k_{48} \oplus k_{74}k_{49}k_{48}\oplus$

$k_{75}k_{74}k_{49}k_{48} \oplus k_{73}k_{49}k_{48} \oplus k_{74}k_{73}k_{49}k_{48} \oplus k_{73}k_{72}k_{49}k_{48} \oplus k_{72}k_{71}k_{49}k_{48}\oplus$

$k_{74}k_{64}k_{49}k_{48} \oplus k_{73}k_{72}k_{64}k_{49}k_{48} \oplus k_{74}k_{63}k_{62}k_{49}k_{48} \oplus k_{73}k_{72}k_{63}k_{62}k_{49}k_{48}\oplus$

$k_{62}k_{61}k_{49}k_{48} \oplus k_{62}k_{60}k_{59}k_{49}k_{48} \oplus k_{61}k_{60}k_{59}k_{49}k_{48} \oplus k_{58}k_{49}k_{48}\oplus$

$k_{62}k_{58}k_{49}k_{48} \oplus k_{61}k_{58}k_{49}k_{48} \oplus k_{61}k_{60}k_{58}k_{49}k_{48} \oplus k_{60}k_{59}k_{58}k_{49}k_{48}\oplus$

$k_{54}k_{49}k_{48} \oplus k_{74}k_{51}k_{49}k_{48} \oplus k_{73}k_{72}k_{51}k_{49}k_{48} \oplus k_{74}k_{50}k_{49}k_{48}\oplus$

$k_{73}k_{72}k_{50}k_{49}k_{48} \oplus k_{75}k_{47} \oplus k_{73}k_{47} \oplus k_{79}k_{78}k_{73}k_{47} \oplus k_{74}k_{73}k_{47} \oplus k_{72}k_{47}\oplus$

$k_{73}k_{71}k_{47} \oplus k_{79}k_{78}k_{72}k_{71}k_{47} \oplus k_{71}k_{70}k_{47} \oplus k_{69}k_{47} \oplus k_{73}k_{70}k_{69}k_{47}\oplus$

$k_{72}k_{71}k_{70}k_{69}k_{47} \oplus k_{68}k_{47} \oplus k_{71}k_{68}k_{47} \oplus k_{70}k_{69}k_{68}k_{47} \oplus k_{67}k_{47}\oplus$

$k_{71}k_{67}k_{47} \oplus k_{70}k_{69}k_{67}k_{47} \oplus k_{67}k_{66}k_{47} \oplus k_{68}k_{66}k_{65}k_{47} \oplus k_{67}k_{66}k_{65}k_{47}\oplus$

$k_{67}k_{65}k_{64}k_{47} \oplus k_{71}k_{67}k_{65}k_{64}k_{47} \oplus k_{70}k_{69}k_{67}k_{65}k_{64}k_{47} \oplus k_{66}k_{65}k_{64}k_{47}\oplus$

$k_{71}k_{66}k_{65}k_{64}k_{47} \oplus k_{70}k_{69}k_{66}k_{65}k_{64}k_{47} \oplus k_{79}k_{78}k_{71}k_{63}k_{47}\oplus$

$k_{79}k_{78}k_{70}k_{69}k_{63}k_{47} \oplus k_{62}k_{47} \oplus k_{79}k_{78}k_{62}k_{47} \oplus k_{71}k_{62}k_{47} \oplus k_{70}k_{69}k_{62}k_{47}\oplus$

$k_{71}k_{61}k_{47} \oplus k_{79}k_{78}k_{71}k_{61}k_{47} \oplus k_{70}k_{69}k_{61}k_{47} \oplus k_{79}k_{78}k_{70}k_{69}k_{61}k_{47}\oplus$

$k_{61}k_{60}k_{47} \oplus k_{79}k_{78}k_{61}k_{60}k_{47} \oplus k_{71}k_{61}k_{60}k_{47} \oplus k_{79}k_{78}k_{71}k_{61}k_{60}k_{47}\oplus$

$k_{70}k_{69}k_{61}k_{60}k_{47} \oplus k_{79}k_{78}k_{70}k_{69}k_{61}k_{60}k_{47} \oplus k_{59}k_{47} \oplus k_{73}k_{59}k_{47}\oplus$

$k_{72}k_{71}k_{59}k_{47} \oplus k_{68}k_{59}k_{47} \oplus k_{67}k_{59}k_{47} \oplus k_{67}k_{65}k_{64}k_{59}k_{47}\oplus$

$k_{66}k_{65}k_{64}k_{59}k_{47} \oplus k_{79}k_{78}k_{63}k_{59}k_{47} \oplus k_{62}k_{59}k_{47} \oplus k_{61}k_{59}k_{47}\oplus$

$k_{79}k_{78}k_{61}k_{59}k_{47} \oplus k_{60}k_{59}k_{47} \oplus k_{79}k_{78}k_{60}k_{59}k_{47} \oplus k_{71}k_{60}k_{59}k_{47}\oplus$

$k_{70}k_{69}k_{60}k_{59}k_{47} \oplus k_{79}k_{78}k_{62}k_{60}k_{59}k_{47} \oplus k_{79}k_{78}k_{71}k_{62}k_{60}k_{59}k_{47}\oplus$

$k_{79}k_{78}k_{70}k_{69}k_{62}k_{60}k_{59}k_{47} \oplus k_{61}k_{60}k_{59}k_{47} \oplus k_{79}k_{78}k_{71}k_{61}k_{60}k_{59}k_{47}\oplus$

$k_{79}k_{78}k_{70}k_{69}k_{61}k_{60}k_{59}k_{47} \oplus k_{58}k_{47} \oplus k_{73}k_{58}k_{47} \oplus k_{72}k_{71}k_{58}k_{47}\oplus$

$k_{68}k_{58}k_{47} \oplus k_{67}k_{58}k_{47} \oplus k_{67}k_{65}k_{64}k_{58}k_{47} \oplus k_{66}k_{65}k_{64}k_{58}k_{47}\oplus$

$k_{79}k_{78}k_{63}k_{58}k_{47} \oplus k_{62}k_{58}k_{47} \oplus k_{61}k_{58}k_{47} \oplus k_{79}k_{78}k_{61}k_{58}k_{47}\oplus$

$k_{61}k_{60}k_{58}k_{47} \oplus k_{79}k_{78}k_{61}k_{60}k_{58}k_{47} \oplus k_{60}k_{59}k_{58}k_{47}\oplus$

$k_{79}k_{78}k_{62}k_{60}k_{59}k_{58}k_{47} \oplus k_{79}k_{78}k_{61}k_{60}k_{59}k_{58}k_{47} \oplus k_{58}k_{57}k_{47}\oplus$

$k_{73}k_{58}k_{57}k_{47} \oplus k_{72}k_{71}k_{58}k_{57}k_{47} \oplus k_{68}k_{58}k_{57}k_{47} \oplus k_{67}k_{58}k_{57}k_{47}\oplus$

$k_{67}k_{65}k_{64}k_{58}k_{57}k_{47} \oplus k_{66}k_{65}k_{64}k_{58}k_{57}k_{47} \oplus k_{79}k_{78}k_{63}k_{58}k_{57}k_{47}\oplus$

$k_{62}k_{58}k_{57}k_{47} \oplus k_{61}k_{58}k_{57}k_{47} \oplus k_{79}k_{78}k_{61}k_{58}k_{57}k_{47} \oplus k_{61}k_{60}k_{58}k_{57}k_{47}\oplus$

$k_{79}k_{78}k_{61}k_{60}k_{58}k_{57}k_{47} \oplus k_{60}k_{59}k_{58}k_{57}k_{47} \oplus k_{79}k_{78}k_{62}k_{60}k_{59}k_{58}k_{57}k_{47}\oplus$

$k_{79}k_{78}k_{61}k_{60}k_{59}k_{58}k_{57}k_{47} \oplus k_{56}k_{47} \oplus k_{79}k_{78}k_{55}k_{47} \oplus k_{79}k_{78}k_{71}k_{55}k_{47}\oplus$

$k_{79}k_{78}k_{70}k_{69}k_{55}k_{47} \oplus k_{79}k_{78}k_{59}k_{55}k_{47} \oplus k_{79}k_{78}k_{58}k_{55}k_{47}\oplus$

$k_{79}k_{78}k_{58}k_{57}k_{55}k_{47} \oplus k_{63}k_{54}k_{47} \oplus k_{71}k_{62}k_{54}k_{47} \oplus k_{70}k_{69}k_{62}k_{54}k_{47}\oplus$

$k_{71}k_{61}k_{54}k_{47} \oplus k_{70}k_{69}k_{61}k_{54}k_{47} \oplus k_{61}k_{60}k_{54}k_{47} \oplus k_{71}k_{61}k_{60}k_{54}k_{47}\oplus$

$k_{70}k_{69}k_{61}k_{60}k_{54}k_{47} \oplus k_{62}k_{59}k_{54}k_{47} \oplus k_{61}k_{59}k_{54}k_{47} \oplus k_{60}k_{59}k_{54}k_{47}\oplus$

$k_{71}k_{60}k_{59}k_{54}k_{47} \oplus k_{70}k_{69}k_{60}k_{59}k_{54}k_{47} \oplus k_{62}k_{60}k_{59}k_{54}k_{47} \oplus k_{62}k_{58}k_{54}k_{47}\oplus$

$k_{61}k_{58}k_{54}k_{47} \oplus k_{61}k_{60}k_{58}k_{54}k_{47} \oplus k_{60}k_{59}k_{58}k_{54}k_{47} \oplus k_{62}k_{58}k_{57}k_{54}k_{47}\oplus$

$k_{61}k_{58}k_{57}k_{54}k_{47} \oplus k_{61}k_{60}k_{58}k_{57}k_{54}k_{47} \oplus k_{60}k_{59}k_{58}k_{57}k_{54}k_{47} \oplus k_{53}k_{47}\oplus$

$k_{73}k_{53}k_{47} \oplus k_{71}k_{53}k_{47} \oplus k_{72}k_{71}k_{53}k_{47} \oplus k_{70}k_{69}k_{53}k_{47} \oplus k_{71}k_{63}k_{53}k_{47}\oplus$

$k_{70}k_{69}k_{63}k_{53}k_{47} \oplus k_{62}k_{53}k_{47} \oplus k_{71}k_{61}k_{53}k_{47} \oplus k_{70}k_{69}k_{61}k_{53}k_{47}\oplus$

$k_{61}k_{60}k_{53}k_{47} \oplus k_{71}k_{61}k_{60}k_{53}k_{47} \oplus k_{70}k_{69}k_{61}k_{60}k_{53}k_{47} \oplus k_{59}k_{53}k_{47}\oplus$

$k_{63}k_{59}k_{53}k_{47} \oplus k_{61}k_{59}k_{53}k_{47} \oplus k_{60}k_{59}k_{53}k_{47} \oplus k_{62}k_{60}k_{59}k_{53}k_{47}\oplus$

$k_{71}k_{62}k_{60}k_{59}k_{53}k_{47} \oplus k_{70}k_{69}k_{62}k_{60}k_{59}k_{53}k_{47} \oplus k_{71}k_{61}k_{60}k_{59}k_{53}k_{47}\oplus$

$k_{70}k_{69}k_{61}k_{60}k_{59}k_{53}k_{47} \oplus k_{58}k_{53}k_{47} \oplus k_{63}k_{58}k_{53}k_{47} \oplus k_{61}k_{58}k_{53}k_{47}\oplus$

$k_{61}k_{60}k_{58}k_{53}k_{47} \oplus k_{62}k_{60}k_{59}k_{58}k_{53}k_{47} \oplus k_{61}k_{60}k_{59}k_{58}k_{53}k_{47}\oplus$

$k_{58}k_{57}k_{53}k_{47} \oplus k_{63}k_{58}k_{57}k_{53}k_{47} \oplus k_{61}k_{58}k_{57}k_{53}k_{47} \oplus k_{61}k_{60}k_{58}k_{57}k_{53}k_{47}\oplus$

$k_{62}k_{60}k_{59}k_{58}k_{57}k_{53}k_{47} \oplus k_{61}k_{60}k_{59}k_{58}k_{57}k_{53}k_{47} \oplus k_{55}k_{53}k_{47}\oplus$

$k_{71}k_{55}k_{53}k_{47} \oplus k_{70}k_{69}k_{55}k_{53}k_{47} \oplus k_{59}k_{55}k_{53}k_{47} \oplus k_{58}k_{55}k_{53}k_{47}\oplus$

$k_{58}k_{57}k_{55}k_{53}k_{47} \oplus k_{52}k_{47} \oplus k_{53}k_{52}k_{47} \oplus k_{51}k_{47} \oplus k_{52}k_{51}k_{47}\oplus$

$k_{71}k_{52}k_{51}k_{47} \oplus k_{70}k_{69}k_{52}k_{51}k_{47} \oplus k_{59}k_{52}k_{51}k_{47} \oplus k_{58}k_{52}k_{51}k_{47}\oplus$

$k_{58}k_{57}k_{52}k_{51}k_{47} \oplus k_{50}k_{47} \oplus k_{64}k_{50}k_{47} \oplus k_{63}k_{62}k_{50}k_{47} \oplus k_{75}k_{48}k_{47}\oplus$

$k_{74}k_{73}k_{48}k_{47} \oplus k_{79}k_{78}k_{71}k_{48}k_{47} \oplus k_{79}k_{78}k_{70}k_{69}k_{48}k_{47} \oplus k_{79}k_{78}k_{59}k_{48}k_{47}\oplus$

$k_{79}k_{78}k_{58}k_{48}k_{47} \oplus k_{79}k_{78}k_{58}k_{57}k_{48}k_{47} \oplus k_{54}k_{48}k_{47} \oplus k_{71}k_{53}k_{48}k_{47}\oplus$

$k_{70}k_{69}k_{53}k_{48}k_{47} \oplus k_{59}k_{53}k_{48}k_{47} \oplus k_{58}k_{53}k_{48}k_{47} \oplus k_{58}k_{57}k_{53}k_{48}k_{47}\oplus$

$k_{61}k_{50}k_{48}k_{47} \oplus k_{60}k_{59}k_{50}k_{48}k_{47} \oplus k_{49}k_{48}k_{47} \oplus k_{64}k_{49}k_{48}k_{47}\oplus$

$k_{63}k_{62}k_{49}k_{48}k_{47} \oplus k_{61}k_{49}k_{48}k_{47} \oplus k_{60}k_{59}k_{49}k_{48}k_{47} \oplus k_{51}k_{49}k_{48}k_{47}\oplus$

$k_{50}k_{49}k_{48}k_{47} \oplus k_{79}k_{78}k_{46} \oplus k_{74}k_{46} \oplus k_{79}k_{78}k_{74}k_{46} \oplus k_{72}k_{46} \oplus k_{73}k_{72}k_{46}\oplus$

$k_{79}k_{78}k_{73}k_{72}k_{46} \oplus k_{79}k_{78}k_{71}k_{46} \oplus k_{74}k_{71}k_{46} \oplus k_{73}k_{72}k_{71}k_{46} \oplus k_{71}k_{70}k_{46}\oplus$

$k_{69}k_{46} \oplus k_{79}k_{78}k_{70}k_{69}k_{46} \oplus k_{74}k_{70}k_{69}k_{46} \oplus k_{73}k_{72}k_{70}k_{69}k_{46} \oplus k_{68}k_{67}k_{46}\oplus$

$k_{63}k_{46} \oplus k_{71}k_{63}k_{46} \oplus k_{70}k_{69}k_{63}k_{46} \oplus k_{79}k_{78}k_{62}k_{46} \oplus k_{79}k_{78}k_{61}k_{46}\oplus$

$k_{60}k_{46} \oplus k_{61}k_{60}k_{46} \oplus k_{79}k_{78}k_{61}k_{60}k_{46} \oplus k_{71}k_{61}k_{60}k_{46} \oplus k_{70}k_{69}k_{61}k_{60}k_{46}\oplus$

$k_{79}k_{78}k_{59}k_{46} \oplus k_{74}k_{59}k_{46} \oplus k_{73}k_{72}k_{59}k_{46} \oplus k_{63}k_{59}k_{46} \oplus k_{79}k_{78}k_{60}k_{59}k_{46}\oplus$

$k_{71}k_{62}k_{60}k_{59}k_{46} \oplus k_{70}k_{69}k_{62}k_{60}k_{59}k_{46} \oplus k_{61}k_{60}k_{59}k_{46} \oplus k_{71}k_{61}k_{60}k_{59}k_{46}\oplus$

$k_{70}k_{69}k_{61}k_{60}k_{59}k_{46} \oplus k_{79}k_{78}k_{58}k_{46} \oplus k_{74}k_{58}k_{46} \oplus k_{73}k_{72}k_{58}k_{46}\oplus$

$k_{63}k_{58}k_{46} \oplus k_{62}k_{58}k_{46} \oplus k_{61}k_{58}k_{46} \oplus k_{59}k_{58}k_{46} \oplus k_{60}k_{59}k_{58}k_{46}\oplus$

$k_{62}k_{60}k_{59}k_{58}k_{46} \oplus k_{61}k_{60}k_{59}k_{58}k_{46} \oplus k_{57}k_{46} \oplus k_{79}k_{78}k_{58}k_{57}k_{46}\oplus$

$k_{74}k_{58}k_{57}k_{46} \oplus k_{73}k_{72}k_{58}k_{57}k_{46} \oplus k_{63}k_{58}k_{57}k_{46} \oplus k_{61}k_{60}k_{58}k_{57}k_{46}\oplus$

$k_{62}k_{60}k_{59}k_{58}k_{57}k_{46} \oplus k_{61}k_{60}k_{59}k_{58}k_{57}k_{46} \oplus k_{56}k_{46} \oplus k_{55}k_{46} \oplus k_{56}k_{55}k_{46}\oplus$

$k_{71}k_{54}k_{46} \oplus k_{70}k_{69}k_{54}k_{46} \oplus k_{59}k_{54}k_{46} \oplus k_{58}k_{54}k_{46} \oplus k_{58}k_{57}k_{54}k_{46}\oplus$

$k_{53}k_{46} \oplus k_{74}k_{53}k_{46} \oplus k_{73}k_{72}k_{53}k_{46} \oplus k_{71}k_{53}k_{46} \oplus k_{70}k_{69}k_{53}k_{46}\oplus$

$k_{62}k_{53}k_{46} \oplus k_{61}k_{53}k_{46} \oplus k_{61}k_{60}k_{53}k_{46} \oplus k_{59}k_{53}k_{46} \oplus k_{60}k_{59}k_{53}k_{46}\oplus$

$k_{58}k_{53}k_{46} \oplus k_{58}k_{57}k_{53}k_{46} \oplus k_{50}k_{46} \oplus k_{71}k_{48}k_{46} \oplus k_{70}k_{69}k_{48}k_{46} \oplus$

$k_{59}k_{48}k_{46} \oplus k_{58}k_{48}k_{46} \oplus k_{58}k_{57}k_{48}k_{46} \oplus k_{49}k_{48}k_{46} \oplus k_{79}k_{78}k_{47}k_{46} \oplus$

$k_{73}k_{47}k_{46} \oplus k_{72}k_{47}k_{46} \oplus k_{79}k_{78}k_{74}k_{71}k_{47}k_{46} \oplus k_{73}k_{71}k_{47}k_{46} \oplus$

$k_{79}k_{78}k_{73}k_{72}k_{71}k_{47}k_{46} \oplus k_{71}k_{70}k_{47}k_{46} \oplus k_{79}k_{78}k_{74}k_{70}k_{69}k_{47}k_{46} \oplus$

$k_{73}k_{70}k_{69}k_{47}k_{46} \oplus k_{79}k_{78}k_{73}k_{72}k_{70}k_{69}k_{47}k_{46} \oplus k_{72}k_{71}k_{70}k_{69}k_{47}k_{46} \oplus$

$k_{79}k_{78}k_{74}k_{59}k_{47}k_{46} \oplus k_{73}k_{59}k_{47}k_{46} \oplus k_{79}k_{78}k_{73}k_{72}k_{59}k_{47}k_{46} \oplus$

$k_{72}k_{71}k_{59}k_{47}k_{46} \oplus k_{58}k_{47}k_{46} \oplus k_{79}k_{78}k_{74}k_{58}k_{47}k_{46} \oplus k_{73}k_{58}k_{47}k_{46} \oplus$

$k_{72}k_{58}k_{47}k_{46} \oplus k_{79}k_{78}k_{73}k_{72}k_{58}k_{47}k_{46} \oplus k_{72}k_{71}k_{58}k_{47}k_{46} \oplus$

$k_{71}k_{70}k_{58}k_{47}k_{46} \oplus k_{79}k_{78}k_{74}k_{58}k_{57}k_{47}k_{46} \oplus k_{73}k_{58}k_{57}k_{47}k_{46} \oplus$

$k_{79}k_{78}k_{73}k_{72}k_{58}k_{57}k_{47}k_{46} \oplus k_{72}k_{71}k_{58}k_{57}k_{47}k_{46} \oplus k_{54}k_{47}k_{46} \oplus$

$k_{74}k_{54}k_{47}k_{46} \oplus k_{73}k_{72}k_{54}k_{47}k_{46} \oplus k_{71}k_{54}k_{47}k_{46} \oplus k_{70}k_{69}k_{54}k_{47}k_{46} \oplus$

$k_{59}k_{54}k_{47}k_{46} \oplus k_{58}k_{54}k_{47}k_{46} \oplus k_{58}k_{57}k_{54}k_{47}k_{46} \oplus k_{53}k_{47}k_{46} \oplus$

$k_{74}k_{71}k_{53}k_{47}k_{46} \oplus k_{73}k_{72}k_{71}k_{53}k_{47}k_{46} \oplus k_{74}k_{70}k_{69}k_{53}k_{47}k_{46} \oplus$

$k_{73}k_{72}k_{70}k_{69}k_{53}k_{47}k_{46} \oplus k_{74}k_{59}k_{53}k_{47}k_{46} \oplus k_{73}k_{72}k_{59}k_{53}k_{47}k_{46} \oplus$

$k_{74}k_{58}k_{53}k_{47}k_{46} \oplus k_{73}k_{72}k_{58}k_{53}k_{47}k_{46} \oplus k_{74}k_{58}k_{57}k_{53}k_{47}k_{46} \oplus$

$k_{73}k_{72}k_{58}k_{57}k_{53}k_{47}k_{46} \oplus k_{50}k_{47}k_{46} \oplus k_{49}k_{48}k_{47}k_{46} \oplus k_{45} \oplus k_{75}k_{45} \oplus$

$k_{74}k_{45} \oplus k_{73}k_{45} \oplus k_{74}k_{73}k_{45} \oplus k_{73}k_{72}k_{45} \oplus k_{71}k_{45} \oplus k_{72}k_{71}k_{45} \oplus$

$k_{70}k_{69}k_{45} \oplus k_{63}k_{45} \oplus k_{71}k_{62}k_{45} \oplus k_{70}k_{69}k_{62}k_{45} \oplus k_{71}k_{61}k_{45} \oplus$

$k_{70}k_{69}k_{61}k_{45} \oplus k_{60}k_{45} \oplus k_{61}k_{60}k_{45} \oplus k_{71}k_{61}k_{60}k_{45} \oplus k_{70}k_{69}k_{61}k_{60}k_{45} \oplus$

$k_{59}k_{45} \oplus k_{62}k_{59}k_{45} \oplus k_{61}k_{59}k_{45} \oplus k_{60}k_{59}k_{45} \oplus k_{71}k_{60}k_{59}k_{45} \oplus$

$k_{70}k_{69}k_{60}k_{59}k_{45} \oplus k_{62}k_{60}k_{59}k_{45} \oplus k_{58}k_{45} \oplus k_{63}k_{58}k_{45} \oplus k_{62}k_{58}k_{45} \oplus$

$k_{61}k_{58}k_{45} \oplus k_{59}k_{58}k_{45} \oplus k_{60}k_{59}k_{58}k_{45} \oplus k_{62}k_{60}k_{59}k_{58}k_{45} \oplus$

$k_{61}k_{60}k_{59}k_{58}k_{45} \oplus k_{58}k_{57}k_{45} \oplus k_{62}k_{58}k_{57}k_{45} \oplus k_{61}k_{58}k_{57}k_{45} \oplus$

$k_{61}k_{60}k_{58}k_{57}k_{45} \oplus k_{60}k_{59}k_{58}k_{57}k_{45} \oplus k_{58}k_{48}k_{45} \oplus k_{47}k_{45} \oplus k_{46}k_{45} \oplus$

$k_{47}k_{46}k_{45} \oplus k_{58}k_{47}k_{46}k_{45} \oplus k_{44} \oplus k_{75}k_{44} \oplus k_{79}k_{78}k_{73}k_{44} \oplus k_{72}k_{44} \oplus$

$k_{73}k_{72}k_{44} \oplus k_{79}k_{78}k_{72}k_{71}k_{44} \oplus k_{74}k_{72}k_{71}k_{44} \oplus k_{73}k_{72}k_{71}k_{44} \oplus k_{71}k_{70}k_{44} \oplus$

$k_{68}k_{44} \oplus k_{74}k_{68}k_{44} \oplus k_{73}k_{72}k_{68}k_{44} \oplus k_{67}k_{44} \oplus k_{74}k_{67}k_{44} \oplus k_{73}k_{72}k_{67}k_{44} \oplus$

$k_{67}k_{65}k_{64}k_{44} \oplus k_{74}k_{67}k_{65}k_{64}k_{44} \oplus k_{73}k_{72}k_{67}k_{65}k_{64}k_{44} \oplus k_{66}k_{65}k_{64}k_{44} \oplus$

$k_{74}k_{66}k_{65}k_{64}k_{44} \oplus k_{73}k_{72}k_{66}k_{65}k_{64}k_{44} \oplus k_{79}k_{78}k_{63}k_{44} \oplus k_{79}k_{78}k_{74}k_{63}k_{44} \oplus$

$k_{73}k_{63}k_{44} \oplus k_{79}k_{78}k_{73}k_{72}k_{63}k_{44} \oplus k_{72}k_{71}k_{63}k_{44} \oplus k_{74}k_{62}k_{44} \oplus k_{72}k_{62}k_{44} \oplus$

$k_{73}k_{72}k_{62}k_{44} \oplus k_{71}k_{70}k_{62}k_{44} \oplus k_{61}k_{44} \oplus k_{74}k_{61}k_{44} \oplus k_{79}k_{78}k_{74}k_{61}k_{44} \oplus$

$k_{72}k_{61}k_{44} \oplus k_{73}k_{72}k_{61}k_{44} \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_{44} \oplus k_{71}k_{70}k_{61}k_{44} \oplus$

$k_{62}k_{61}k_{44} \oplus k_{61}k_{60}k_{44} \oplus k_{79}k_{78}k_{61}k_{60}k_{44} \oplus k_{74}k_{61}k_{60}k_{44} \oplus$

$k_{79}k_{78}k_{74}k_{61}k_{60}k_{44} \oplus k_{73}k_{61}k_{60}k_{44} \oplus k_{72}k_{61}k_{60}k_{44} \oplus k_{73}k_{72}k_{61}k_{60}k_{44} \oplus$

$k_{79}k_{78}k_{73}k_{72}k_{61}k_{60}k_{44} \oplus k_{72}k_{71}k_{61}k_{60}k_{44} \oplus k_{71}k_{70}k_{61}k_{60}k_{44} \oplus k_{59}k_{44} \oplus$

$k_{60}k_{59}k_{44} \oplus k_{74}k_{60}k_{59}k_{44} \oplus k_{72}k_{60}k_{59}k_{44} \oplus k_{73}k_{72}k_{60}k_{59}k_{44} \oplus$

$k_{71}k_{70}k_{60}k_{59}k_{44} \oplus k_{79}k_{78}k_{62}k_{60}k_{59}k_{44} \oplus k_{79}k_{78}k_{74}k_{62}k_{60}k_{59}k_{44}\oplus$

$k_{73}k_{62}k_{60}k_{59}k_{44} \oplus k_{79}k_{78}k_{73}k_{72}k_{62}k_{60}k_{59}k_{44} \oplus k_{72}k_{71}k_{62}k_{60}k_{59}k_{44}\oplus$

$k_{61}k_{60}k_{59}k_{44} \oplus k_{79}k_{78}k_{61}k_{60}k_{59}k_{44} \oplus k_{79}k_{78}k_{74}k_{61}k_{60}k_{59}k_{44}\oplus$

$k_{73}k_{61}k_{60}k_{59}k_{44} \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_{60}k_{59}k_{44} \oplus k_{72}k_{71}k_{61}k_{60}k_{59}k_{44}\oplus$

$k_{58}k_{44} \oplus k_{59}k_{58}k_{44} \oplus k_{57}k_{44} \oplus k_{60}k_{57}k_{44} \oplus k_{58}k_{57}k_{44} \oplus k_{58}k_{56}k_{44}\oplus$

$k_{55}k_{44} \oplus k_{79}k_{78}k_{74}k_{55}k_{44} \oplus k_{79}k_{78}k_{73}k_{72}k_{55}k_{44} \oplus k_{62}k_{55}k_{44} \oplus k_{61}k_{55}k_{44}\oplus$

$k_{61}k_{60}k_{55}k_{44} \oplus k_{60}k_{59}k_{55}k_{44} \oplus k_{54}k_{44} \oplus k_{73}k_{54}k_{44} \oplus k_{72}k_{71}k_{54}k_{44}\oplus$

$k_{63}k_{54}k_{44} \oplus k_{62}k_{54}k_{44} \oplus k_{74}k_{62}k_{54}k_{44} \oplus k_{73}k_{72}k_{62}k_{54}k_{44} \oplus k_{61}k_{54}k_{44}\oplus$

$k_{74}k_{61}k_{54}k_{44} \oplus k_{73}k_{72}k_{61}k_{54}k_{44} \oplus k_{74}k_{61}k_{60}k_{54}k_{44} \oplus k_{73}k_{72}k_{61}k_{60}k_{54}k_{44}\oplus$

$k_{60}k_{59}k_{54}k_{44} \oplus k_{74}k_{60}k_{59}k_{54}k_{44} \oplus k_{73}k_{72}k_{60}k_{59}k_{54}k_{44} \oplus k_{62}k_{60}k_{59}k_{54}k_{44}\oplus$

$k_{61}k_{60}k_{59}k_{54}k_{44} \oplus k_{53}k_{44} \oplus k_{74}k_{53}k_{44} \oplus k_{73}k_{53}k_{44} \oplus k_{73}k_{72}k_{53}k_{44}\oplus$

$k_{72}k_{71}k_{53}k_{44} \oplus k_{63}k_{53}k_{44} \oplus k_{74}k_{63}k_{53}k_{44} \oplus k_{73}k_{72}k_{63}k_{53}k_{44}\oplus$

$k_{74}k_{61}k_{53}k_{44} \oplus k_{73}k_{72}k_{61}k_{53}k_{44} \oplus k_{61}k_{60}k_{53}k_{44} \oplus k_{74}k_{61}k_{60}k_{53}k_{44}\oplus$

$k_{73}k_{72}k_{61}k_{60}k_{53}k_{44} \oplus k_{62}k_{60}k_{59}k_{53}k_{44} \oplus k_{74}k_{62}k_{60}k_{59}k_{53}k_{44}\oplus$

$k_{73}k_{72}k_{62}k_{60}k_{59}k_{53}k_{44} \oplus k_{61}k_{60}k_{59}k_{53}k_{44} \oplus k_{74}k_{61}k_{60}k_{59}k_{53}k_{44}\oplus$

$k_{73}k_{72}k_{61}k_{60}k_{59}k_{53}k_{44} \oplus k_{74}k_{55}k_{53}k_{44} \oplus k_{73}k_{72}k_{55}k_{53}k_{44} \oplus k_{52}k_{51}k_{44}\oplus$

$k_{74}k_{52}k_{51}k_{44} \oplus k_{73}k_{72}k_{52}k_{51}k_{44} \oplus k_{48}k_{44} \oplus k_{79}k_{78}k_{48}k_{44}\oplus$

$k_{79}k_{78}k_{74}k_{48}k_{44} \oplus k_{73}k_{48}k_{44} \oplus k_{79}k_{78}k_{73}k_{72}k_{48}k_{44} \oplus k_{72}k_{71}k_{48}k_{44}\oplus$

$k_{56}k_{48}k_{44} \oplus k_{54}k_{48}k_{44} \oplus k_{53}k_{48}k_{44} \oplus k_{74}k_{53}k_{48}k_{44} \oplus k_{73}k_{72}k_{53}k_{48}k_{44}\oplus$

$k_{73}k_{47}k_{44} \oplus k_{72}k_{71}k_{47}k_{44} \oplus k_{68}k_{47}k_{44} \oplus k_{67}k_{47}k_{44} \oplus k_{67}k_{65}k_{64}k_{47}k_{44}\oplus$

$k_{66}k_{65}k_{64}k_{47}k_{44} \oplus k_{79}k_{78}k_{63}k_{47}k_{44} \oplus k_{62}k_{47}k_{44} \oplus k_{61}k_{47}k_{44}\oplus$

$k_{79}k_{78}k_{61}k_{47}k_{44} \oplus k_{61}k_{60}k_{47}k_{44} \oplus k_{79}k_{78}k_{61}k_{60}k_{47}k_{44} \oplus k_{60}k_{59}k_{47}k_{44}\oplus$

$k_{79}k_{78}k_{62}k_{60}k_{59}k_{47}k_{44} \oplus k_{79}k_{78}k_{61}k_{60}k_{59}k_{47}k_{44} \oplus k_{79}k_{78}k_{55}k_{47}k_{44}\oplus$

$k_{62}k_{54}k_{47}k_{44} \oplus k_{61}k_{54}k_{47}k_{44} \oplus k_{61}k_{60}k_{54}k_{47}k_{44} \oplus k_{60}k_{59}k_{54}k_{47}k_{44}\oplus$

$k_{53}k_{47}k_{44} \oplus k_{63}k_{53}k_{47}k_{44} \oplus k_{61}k_{53}k_{47}k_{44} \oplus k_{61}k_{60}k_{53}k_{47}k_{44}\oplus$

$k_{62}k_{60}k_{59}k_{53}k_{47}k_{44} \oplus k_{61}k_{60}k_{59}k_{53}k_{47}k_{44} \oplus k_{55}k_{53}k_{47}k_{44} \oplus k_{52}k_{51}k_{47}k_{44}\oplus$

$k_{79}k_{78}k_{48}k_{47}k_{44} \oplus k_{53}k_{48}k_{47}k_{44} \oplus k_{79}k_{78}k_{46}k_{44} \oplus k_{74}k_{46}k_{44}\oplus$

$k_{73}k_{72}k_{46}k_{44} \oplus k_{63}k_{46}k_{44} \oplus k_{61}k_{60}k_{46}k_{44} \oplus k_{62}k_{60}k_{59}k_{46}k_{44}\oplus$

$k_{61}k_{60}k_{59}k_{46}k_{44} \oplus k_{54}k_{46}k_{44} \oplus k_{53}k_{46}k_{44} \oplus k_{48}k_{46}k_{44}\oplus$

$k_{79}k_{78}k_{74}k_{47}k_{46}k_{44} \oplus k_{73}k_{47}k_{46}k_{44} \oplus k_{79}k_{78}k_{73}k_{72}k_{47}k_{46}k_{44}\oplus$

$k_{72}k_{71}k_{47}k_{46}k_{44} \oplus k_{54}k_{47}k_{46}k_{44} \oplus k_{74}k_{53}k_{47}k_{46}k_{44} \oplus k_{73}k_{72}k_{53}k_{47}k_{46}k_{44}\oplus$

$k_{45}k_{44} \oplus k_{62}k_{45}k_{44} \oplus k_{61}k_{45}k_{44} \oplus k_{61}k_{60}k_{45}k_{44} \oplus k_{60}k_{59}k_{45}k_{44} \oplus k_{42}\oplus$

$k_{78}k_{42} \oplus k_{77}k_{76}k_{42} \oplus k_{74}k_{42} \oplus k_{73}k_{42} \oplus k_{73}k_{72}k_{42} \oplus k_{72}k_{71}k_{42} \oplus k_{60}k_{42}\oplus$

$k_{51}k_{42} \oplus k_{47}k_{42} \oplus k_{46}k_{42} \oplus k_{60}k_{43}k_{42} \oplus k_{58}k_{43}k_{42} \oplus k_{60}k_{57}k_{43}k_{42}\oplus$

$k_{58}k_{56}k_{43}k_{42} \oplus k_{56}k_{48}k_{43}k_{42} \oplus k_{41} \oplus k_{74}k_{41} \oplus k_{73}k_{72}k_{41} \oplus k_{71}k_{41}\oplus$

$k_{74}k_{71}k_{41} \oplus k_{73}k_{72}k_{71}k_{41} \oplus k_{70}k_{69}k_{41} \oplus k_{74}k_{70}k_{69}k_{41} \oplus k_{73}k_{72}k_{70}k_{69}k_{41}\oplus$

$k_{74}k_{67}k_{41} \oplus k_{73}k_{72}k_{67}k_{41} \oplus k_{74}k_{66}k_{65}k_{41} \oplus k_{73}k_{72}k_{66}k_{65}k_{41} \oplus k_{62}k_{41}\oplus$

$k_{60}k_{41} \oplus k_{59}k_{41} \oplus k_{74}k_{59}k_{41} \oplus k_{73}k_{72}k_{59}k_{41} \oplus k_{74}k_{58}k_{41} \oplus k_{73}k_{72}k_{58}k_{41}\oplus$

$k_{62}k_{58}k_{41} \oplus k_{61}k_{58}k_{41} \oplus k_{61}k_{60}k_{58}k_{41} \oplus k_{60}k_{59}k_{58}k_{41} \oplus k_{58}k_{57}k_{41}\oplus$

$k_{74}k_{58}k_{57}k_{41} \oplus k_{73}k_{72}k_{58}k_{57}k_{41} \oplus k_{47}k_{41} \oplus k_{71}k_{47}k_{41} \oplus k_{70}k_{69}k_{47}k_{41}\oplus$

$k_{67}k_{47}k_{41} \oplus k_{66}k_{65}k_{47}k_{41} \oplus k_{59}k_{47}k_{41} \oplus k_{58}k_{47}k_{41} \oplus k_{58}k_{57}k_{47}k_{41}\oplus$

$k_{44}k_{41} \oplus k_{74}k_{44}k_{41} \oplus k_{73}k_{72}k_{44}k_{41} \oplus k_{47}k_{44}k_{41} \oplus k_{42}k_{41} \oplus k_{44}k_{42}k_{41}\oplus$

$k_{74}k_{40} \oplus k_{73}k_{72}k_{40} \oplus k_{71}k_{40} \oplus k_{74}k_{71}k_{40} \oplus k_{73}k_{72}k_{71}k_{40} \oplus k_{70}k_{69}k_{40}\oplus$

$k_{74}k_{70}k_{69}k_{40} \oplus k_{73}k_{72}k_{70}k_{69}k_{40} \oplus k_{74}k_{68}k_{40} \oplus k_{73}k_{72}k_{68}k_{40} \oplus k_{66}k_{40}\oplus$

$k_{74}k_{66}k_{40} \oplus k_{73}k_{72}k_{66}k_{40} \oplus k_{71}k_{66}k_{40} \oplus k_{74}k_{71}k_{66}k_{40} \oplus k_{73}k_{72}k_{71}k_{66}k_{40}\oplus$

$k_{70}k_{69}k_{66}k_{40} \oplus k_{74}k_{70}k_{69}k_{66}k_{40} \oplus k_{73}k_{72}k_{70}k_{69}k_{66}k_{40} \oplus k_{74}k_{67}k_{66}k_{40}\oplus$

$k_{73}k_{72}k_{67}k_{66}k_{40} \oplus k_{65}k_{64}k_{40} \oplus k_{74}k_{65}k_{64}k_{40} \oplus k_{73}k_{72}k_{65}k_{64}k_{40}\oplus$

$k_{71}k_{65}k_{64}k_{40} \oplus k_{74}k_{71}k_{65}k_{64}k_{40} \oplus k_{73}k_{72}k_{71}k_{65}k_{64}k_{40} \oplus k_{70}k_{69}k_{65}k_{64}k_{40}\oplus$

$k_{74}k_{70}k_{69}k_{65}k_{64}k_{40} \oplus k_{73}k_{72}k_{70}k_{69}k_{65}k_{64}k_{40} \oplus k_{59}k_{40} \oplus k_{74}k_{59}k_{40}\oplus$

$k_{73}k_{72}k_{59}k_{40} \oplus k_{66}k_{59}k_{40} \oplus k_{74}k_{66}k_{59}k_{40} \oplus k_{73}k_{72}k_{66}k_{59}k_{40}\oplus$

$k_{65}k_{64}k_{59}k_{40} \oplus k_{74}k_{65}k_{64}k_{59}k_{40} \oplus k_{73}k_{72}k_{65}k_{64}k_{59}k_{40} \oplus k_{58}k_{40}\oplus$

$k_{74}k_{58}k_{40} \oplus k_{73}k_{72}k_{58}k_{40} \oplus k_{66}k_{58}k_{40} \oplus k_{74}k_{66}k_{58}k_{40} \oplus k_{73}k_{72}k_{66}k_{58}k_{40}\oplus$

$k_{65}k_{64}k_{58}k_{40} \oplus k_{74}k_{65}k_{64}k_{58}k_{40} \oplus k_{73}k_{72}k_{65}k_{64}k_{58}k_{40} \oplus k_{58}k_{57}k_{40}\oplus$

$k_{74}k_{58}k_{57}k_{40} \oplus k_{73}k_{72}k_{58}k_{57}k_{40} \oplus k_{66}k_{58}k_{57}k_{40} \oplus k_{74}k_{66}k_{58}k_{57}k_{40}\oplus$

$k_{73}k_{72}k_{66}k_{58}k_{57}k_{40} \oplus k_{65}k_{64}k_{58}k_{57}k_{40} \oplus k_{74}k_{65}k_{64}k_{58}k_{57}k_{40}\oplus$

$k_{73}k_{72}k_{65}k_{64}k_{58}k_{57}k_{40} \oplus k_{47}k_{40} \oplus k_{71}k_{47}k_{40} \oplus k_{70}k_{69}k_{47}k_{40} \oplus k_{68}k_{47}k_{40}\oplus$

$k_{66}k_{47}k_{40} \oplus k_{71}k_{66}k_{47}k_{40} \oplus k_{70}k_{69}k_{66}k_{47}k_{40} \oplus k_{67}k_{66}k_{47}k_{40}\oplus$

$k_{65}k_{64}k_{47}k_{40} \oplus k_{71}k_{65}k_{64}k_{47}k_{40} \oplus k_{70}k_{69}k_{65}k_{64}k_{47}k_{40} \oplus k_{59}k_{47}k_{40}\oplus$

$k_{66}k_{59}k_{47}k_{40} \oplus k_{65}k_{64}k_{59}k_{47}k_{40} \oplus k_{58}k_{47}k_{40} \oplus k_{66}k_{58}k_{47}k_{40}\oplus$

$k_{65}k_{64}k_{58}k_{47}k_{40} \oplus k_{58}k_{57}k_{47}k_{40} \oplus k_{66}k_{58}k_{57}k_{47}k_{40} \oplus k_{65}k_{64}k_{58}k_{57}k_{47}k_{40}\oplus$

$k_{44}k_{40} \oplus k_{74}k_{44}k_{40} \oplus k_{73}k_{72}k_{44}k_{40} \oplus k_{66}k_{44}k_{40} \oplus k_{74}k_{66}k_{44}k_{40}\oplus$

$k_{73}k_{72}k_{66}k_{44}k_{40} \oplus k_{65}k_{64}k_{44}k_{40} \oplus k_{74}k_{65}k_{64}k_{44}k_{40} \oplus k_{73}k_{72}k_{65}k_{64}k_{44}k_{40}\oplus$

$k_{47}k_{44}k_{40} \oplus k_{66}k_{47}k_{44}k_{40} \oplus k_{65}k_{64}k_{47}k_{44}k_{40} \oplus k_{74}k_{41}k_{40} \oplus k_{73}k_{72}k_{41}k_{40}\oplus$

$k_{47}k_{41}k_{40} \oplus k_{39} \oplus k_{67}k_{39} \oplus k_{74}k_{67}k_{39} \oplus k_{73}k_{72}k_{67}k_{39} \oplus k_{71}k_{67}k_{39}\oplus$

$k_{74}k_{71}k_{67}k_{39} \oplus k_{73}k_{72}k_{71}k_{67}k_{39} \oplus k_{70}k_{69}k_{67}k_{39} \oplus k_{74}k_{70}k_{69}k_{67}k_{39}\oplus$

$k_{73}k_{72}k_{70}k_{69}k_{67}k_{39} \oplus k_{66}k_{65}k_{39} \oplus k_{74}k_{66}k_{65}k_{39} \oplus k_{73}k_{72}k_{66}k_{65}k_{39}\oplus$

$k_{71}k_{66}k_{65}k_{39} \oplus k_{74}k_{71}k_{66}k_{65}k_{39} \oplus k_{73}k_{72}k_{71}k_{66}k_{65}k_{39} \oplus k_{70}k_{69}k_{66}k_{65}k_{39}\oplus$

$k_{74}k_{70}k_{69}k_{66}k_{65}k_{39} \oplus k_{73}k_{72}k_{70}k_{69}k_{66}k_{65}k_{39} \oplus k_{62}k_{39} \oplus k_{67}k_{59}k_{39}\oplus$

$k_{74}k_{67}k_{59}k_{39} \oplus k_{73}k_{72}k_{67}k_{59}k_{39} \oplus k_{66}k_{65}k_{59}k_{39} \oplus k_{74}k_{66}k_{65}k_{59}k_{39}\oplus$

$k_{73}k_{72}k_{66}k_{65}k_{59}k_{39} \oplus k_{67}k_{58}k_{39} \oplus k_{74}k_{67}k_{58}k_{39} \oplus k_{73}k_{72}k_{67}k_{58}k_{39}\oplus$

$k_{66}k_{65}k_{58}k_{39} \oplus k_{74}k_{66}k_{65}k_{58}k_{39} \oplus k_{73}k_{72}k_{66}k_{65}k_{58}k_{39} \oplus k_{67}k_{58}k_{57}k_{39}\oplus$

$k_{74}k_{67}k_{58}k_{57}k_{39} \oplus k_{73}k_{72}k_{67}k_{58}k_{57}k_{39} \oplus k_{66}k_{65}k_{58}k_{57}k_{39}\oplus$

$k_{74}k_{66}k_{65}k_{58}k_{57}k_{39} \oplus k_{73}k_{72}k_{66}k_{65}k_{58}k_{57}k_{39} \oplus k_{67}k_{47}k_{39} \oplus k_{71}k_{67}k_{47}k_{39} \oplus$

$k_{70}k_{69}k_{67}k_{47}k_{39} \oplus k_{66}k_{65}k_{47}k_{39} \oplus k_{71}k_{66}k_{65}k_{47}k_{39} \oplus k_{70}k_{69}k_{66}k_{65}k_{47}k_{39} \oplus$

$k_{67}k_{59}k_{47}k_{39} \oplus k_{66}k_{65}k_{59}k_{47}k_{39} \oplus k_{67}k_{58}k_{47}k_{39} \oplus k_{66}k_{65}k_{58}k_{47}k_{39} \oplus$

$k_{67}k_{58}k_{57}k_{47}k_{39} \oplus k_{66}k_{65}k_{58}k_{57}k_{47}k_{39} \oplus k_{67}k_{44}k_{39} \oplus k_{74}k_{67}k_{44}k_{39} \oplus$

$k_{73}k_{72}k_{67}k_{44}k_{39} \oplus k_{66}k_{65}k_{44}k_{39} \oplus k_{74}k_{66}k_{65}k_{44}k_{39} \oplus k_{73}k_{72}k_{66}k_{65}k_{44}k_{39} \oplus$

$k_{67}k_{47}k_{44}k_{39} \oplus k_{66}k_{65}k_{47}k_{44}k_{39} \oplus k_{40}k_{39} \oplus k_{74}k_{40}k_{39} \oplus k_{73}k_{72}k_{40}k_{39} \oplus$

$k_{71}k_{40}k_{39} \oplus k_{74}k_{71}k_{40}k_{39} \oplus k_{73}k_{72}k_{71}k_{40}k_{39} \oplus k_{70}k_{69}k_{40}k_{39} \oplus$

$k_{74}k_{70}k_{69}k_{40}k_{39} \oplus k_{73}k_{72}k_{70}k_{69}k_{40}k_{39} \oplus k_{62}k_{40}k_{39} \oplus k_{59}k_{40}k_{39} \oplus$

$k_{74}k_{59}k_{40}k_{39} \oplus k_{73}k_{72}k_{59}k_{40}k_{39} \oplus k_{58}k_{40}k_{39} \oplus k_{74}k_{58}k_{40}k_{39} \oplus$

$k_{73}k_{72}k_{58}k_{40}k_{39} \oplus k_{58}k_{57}k_{40}k_{39} \oplus k_{74}k_{58}k_{57}k_{40}k_{39} \oplus k_{73}k_{72}k_{58}k_{57}k_{40}k_{39} \oplus$

$k_{47}k_{40}k_{39} \oplus k_{71}k_{47}k_{40}k_{39} \oplus k_{70}k_{69}k_{47}k_{40}k_{39} \oplus k_{59}k_{47}k_{40}k_{39} \oplus$

$k_{58}k_{47}k_{40}k_{39} \oplus k_{58}k_{57}k_{47}k_{40}k_{39} \oplus k_{44}k_{40}k_{39} \oplus k_{74}k_{44}k_{40}k_{39} \oplus$

$k_{73}k_{72}k_{44}k_{40}k_{39} \oplus k_{47}k_{44}k_{40}k_{39} \oplus k_{38} \oplus k_{62}k_{38} \oplus k_{37} \oplus k_{74}k_{37} \oplus$

$k_{73}k_{72}k_{37} \oplus k_{63}k_{37} \oplus k_{63}k_{62}k_{37} \oplus k_{74}k_{50}k_{37} \oplus k_{73}k_{72}k_{50}k_{37} \oplus$

$k_{74}k_{49}k_{48}k_{37} \oplus k_{73}k_{72}k_{49}k_{48}k_{37} \oplus k_{47}k_{37} \oplus k_{50}k_{47}k_{37} \oplus k_{49}k_{48}k_{47}k_{37} \oplus$

$k_{79}k_{36} \oplus k_{79}k_{78}k_{36} \oplus k_{78}k_{77}k_{36} \oplus k_{76}k_{36} \oplus k_{75}k_{36} \oplus k_{75}k_{74}k_{36} \oplus k_{73}k_{36} \oplus$

$k_{74}k_{73}k_{36} \oplus k_{72}k_{36} \oplus k_{79}k_{78}k_{71}k_{36} \oplus k_{79}k_{78}k_{74}k_{71}k_{36} \oplus k_{73}k_{71}k_{36} \oplus$

$k_{79}k_{78}k_{73}k_{72}k_{71}k_{36} \oplus k_{71}k_{70}k_{36} \oplus k_{79}k_{78}k_{70}k_{69}k_{36} \oplus k_{79}k_{78}k_{74}k_{70}k_{69}k_{36} \oplus$

$k_{73}k_{70}k_{69}k_{36} \oplus k_{79}k_{78}k_{73}k_{72}k_{70}k_{69}k_{36} \oplus k_{72}k_{71}k_{70}k_{69}k_{36} \oplus k_{64}k_{36} \oplus$

$k_{62}k_{36} \oplus k_{64}k_{62}k_{36} \oplus k_{61}k_{36} \oplus k_{79}k_{78}k_{59}k_{36} \oplus k_{79}k_{78}k_{74}k_{59}k_{36} \oplus$

$k_{73}k_{59}k_{36} \oplus k_{79}k_{78}k_{73}k_{72}k_{59}k_{36} \oplus k_{72}k_{71}k_{59}k_{36} \oplus k_{60}k_{59}k_{36} \oplus k_{58}k_{36} \oplus$

$k_{78}k_{58}k_{36} \oplus k_{79}k_{78}k_{58}k_{36} \oplus k_{77}k_{76}k_{58}k_{36} \oplus k_{79}k_{78}k_{74}k_{58}k_{36} \oplus k_{73}k_{58}k_{36} \oplus$

$k_{72}k_{58}k_{36} \oplus k_{79}k_{78}k_{73}k_{72}k_{58}k_{36} \oplus k_{72}k_{71}k_{58}k_{36} \oplus k_{71}k_{70}k_{58}k_{36} \oplus$

$k_{79}k_{78}k_{58}k_{57}k_{36} \oplus k_{79}k_{78}k_{74}k_{58}k_{57}k_{36} \oplus k_{73}k_{58}k_{57}k_{36} \oplus$

$k_{79}k_{78}k_{73}k_{72}k_{58}k_{57}k_{36} \oplus k_{72}k_{71}k_{58}k_{57}k_{36} \oplus k_{74}k_{54}k_{36} \oplus k_{73}k_{72}k_{54}k_{36} \oplus$

$k_{71}k_{54}k_{36} \oplus k_{70}k_{69}k_{54}k_{36} \oplus k_{59}k_{54}k_{36} \oplus k_{58}k_{54}k_{36} \oplus k_{58}k_{57}k_{54}k_{36} \oplus$

$k_{53}k_{36} \oplus k_{71}k_{53}k_{36} \oplus k_{74}k_{71}k_{53}k_{36} \oplus k_{73}k_{72}k_{71}k_{53}k_{36} \oplus k_{70}k_{69}k_{53}k_{36} \oplus$

$k_{74}k_{70}k_{69}k_{53}k_{36} \oplus k_{73}k_{72}k_{70}k_{69}k_{53}k_{36} \oplus k_{59}k_{53}k_{36} \oplus k_{74}k_{59}k_{53}k_{36} \oplus$

$k_{73}k_{72}k_{59}k_{53}k_{36} \oplus k_{58}k_{53}k_{36} \oplus k_{74}k_{58}k_{53}k_{36} \oplus k_{73}k_{72}k_{58}k_{53}k_{36} \oplus$

$k_{58}k_{57}k_{53}k_{36} \oplus k_{74}k_{58}k_{57}k_{53}k_{36} \oplus k_{73}k_{72}k_{58}k_{57}k_{53}k_{36} \oplus k_{52}k_{36} \oplus$

$k_{58}k_{51}k_{36} \oplus k_{49}k_{36} \oplus k_{48}k_{36} \oplus k_{79}k_{78}k_{71}k_{47}k_{36} \oplus k_{79}k_{78}k_{70}k_{69}k_{47}k_{36} \oplus$

$k_{79}k_{78}k_{59}k_{47}k_{36} \oplus k_{79}k_{78}k_{58}k_{47}k_{36} \oplus k_{79}k_{78}k_{58}k_{57}k_{47}k_{36} \oplus k_{54}k_{47}k_{36} \oplus$

$k_{71}k_{53}k_{47}k_{36} \oplus k_{70}k_{69}k_{53}k_{47}k_{36} \oplus k_{59}k_{53}k_{47}k_{36} \oplus k_{58}k_{53}k_{47}k_{36} \oplus$

$k_{58}k_{57}k_{53}k_{47}k_{36} \oplus k_{46}k_{36} \oplus k_{71}k_{46}k_{36} \oplus k_{70}k_{69}k_{46}k_{36} \oplus k_{59}k_{46}k_{36} \oplus$

$k_{58}k_{46}k_{36} \oplus k_{58}k_{57}k_{46}k_{36} \oplus k_{45}k_{36} \oplus k_{58}k_{45}k_{36} \oplus k_{79}k_{78}k_{44}k_{36} \oplus$

$k_{79}k_{78}k_{74}k_{44}k_{36} \oplus k_{73}k_{44}k_{36} \oplus k_{79}k_{78}k_{73}k_{72}k_{44}k_{36} \oplus k_{72}k_{71}k_{44}k_{36} \oplus$

$k_{54}k_{44}k_{36} \oplus k_{53}k_{44}k_{36} \oplus k_{74}k_{53}k_{44}k_{36} \oplus k_{73}k_{72}k_{53}k_{44}k_{36}\oplus$

$k_{79}k_{78}k_{47}k_{44}k_{36} \oplus k_{53}k_{47}k_{44}k_{36} \oplus k_{46}k_{44}k_{36} \oplus k_{37}k_{36} \oplus k_{62}k_{37}k_{36}\oplus$

$k_{79}k_{78}k_{35} \oplus k_{76}k_{35} \oplus k_{75}k_{35} \oplus k_{77}k_{75}k_{35} \oplus k_{74}k_{35} \oplus k_{79}k_{78}k_{74}k_{35}\oplus$

$k_{79}k_{78}k_{73}k_{35} \oplus k_{74}k_{73}k_{35} \oplus k_{77}k_{74}k_{73}k_{35} \oplus k_{76}k_{74}k_{73}k_{35} \oplus k_{75}k_{74}k_{73}k_{35}\oplus$

$k_{76}k_{75}k_{74}k_{73}k_{35} \oplus k_{73}k_{72}k_{35} \oplus k_{79}k_{78}k_{73}k_{72}k_{35} \oplus k_{74}k_{71}k_{35} \oplus k_{72}k_{71}k_{35}\oplus$

$k_{79}k_{78}k_{72}k_{71}k_{35} \oplus k_{73}k_{72}k_{71}k_{35} \oplus k_{71}k_{70}k_{35} \oplus k_{74}k_{70}k_{69}k_{35}\oplus$

$k_{72}k_{70}k_{69}k_{35} \oplus k_{73}k_{72}k_{70}k_{69}k_{35} \oplus k_{71}k_{70}k_{69}k_{35} \oplus k_{79}k_{78}k_{61}k_{35}\oplus$

$k_{73}k_{61}k_{35} \oplus k_{72}k_{61}k_{35} \oplus k_{71}k_{61}k_{35} \oplus k_{79}k_{78}k_{71}k_{61}k_{35}\oplus$

$k_{79}k_{78}k_{74}k_{71}k_{61}k_{35} \oplus k_{73}k_{71}k_{61}k_{35} \oplus k_{79}k_{78}k_{73}k_{72}k_{71}k_{61}k_{35}\oplus$

$k_{71}k_{70}k_{61}k_{35} \oplus k_{70}k_{69}k_{61}k_{35} \oplus k_{79}k_{78}k_{70}k_{69}k_{61}k_{35}\oplus$

$k_{79}k_{78}k_{74}k_{70}k_{69}k_{61}k_{35} \oplus k_{73}k_{70}k_{69}k_{61}k_{35} \oplus k_{79}k_{78}k_{73}k_{72}k_{70}k_{69}k_{61}k_{35}\oplus$

$k_{72}k_{71}k_{70}k_{69}k_{61}k_{35} \oplus k_{74}k_{59}k_{35} \oplus k_{72}k_{59}k_{35} \oplus k_{73}k_{72}k_{59}k_{35}\oplus$

$k_{71}k_{70}k_{59}k_{35} \oplus k_{61}k_{59}k_{35} \oplus k_{79}k_{78}k_{61}k_{59}k_{35} \oplus k_{79}k_{78}k_{74}k_{61}k_{59}k_{35}\oplus$

$k_{73}k_{61}k_{59}k_{35} \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_{59}k_{35} \oplus k_{72}k_{71}k_{61}k_{59}k_{35}\oplus$

$k_{79}k_{78}k_{60}k_{59}k_{35} \oplus k_{79}k_{78}k_{74}k_{60}k_{59}k_{35} \oplus k_{72}k_{60}k_{59}k_{35}\oplus$

$k_{79}k_{78}k_{73}k_{72}k_{60}k_{59}k_{35} \oplus k_{79}k_{78}k_{71}k_{60}k_{59}k_{35} \oplus k_{79}k_{78}k_{74}k_{71}k_{60}k_{59}k_{35}\oplus$

$k_{73}k_{71}k_{60}k_{59}k_{35} \oplus k_{72}k_{71}k_{60}k_{59}k_{35} \oplus k_{79}k_{78}k_{73}k_{72}k_{71}k_{60}k_{59}k_{35}\oplus$

$k_{71}k_{70}k_{60}k_{59}k_{35} \oplus k_{79}k_{78}k_{70}k_{69}k_{60}k_{59}k_{35} \oplus k_{79}k_{78}k_{74}k_{70}k_{69}k_{60}k_{59}k_{35}\oplus$

$k_{73}k_{70}k_{69}k_{60}k_{59}k_{35} \oplus k_{79}k_{78}k_{73}k_{72}k_{70}k_{69}k_{60}k_{59}k_{35}\oplus$

$k_{72}k_{71}k_{70}k_{69}k_{60}k_{59}k_{35} \oplus k_{58}k_{35} \oplus k_{77}k_{58}k_{35} \oplus k_{76}k_{58}k_{35} \oplus k_{75}k_{58}k_{35}\oplus$

$k_{74}k_{58}k_{35} \oplus k_{73}k_{58}k_{35} \oplus k_{74}k_{73}k_{58}k_{35} \oplus k_{76}k_{74}k_{73}k_{58}k_{35}\oplus$

$k_{75}k_{74}k_{73}k_{58}k_{35} \oplus k_{72}k_{58}k_{35} \oplus k_{73}k_{72}k_{58}k_{35} \oplus k_{72}k_{71}k_{58}k_{35}\oplus$

$k_{71}k_{70}k_{58}k_{35} \oplus k_{61}k_{58}k_{35} \oplus k_{79}k_{78}k_{61}k_{58}k_{35} \oplus k_{79}k_{78}k_{74}k_{61}k_{58}k_{35}\oplus$

$k_{73}k_{61}k_{58}k_{35} \oplus k_{72}k_{61}k_{58}k_{35} \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_{58}k_{35} \oplus k_{72}k_{71}k_{61}k_{58}k_{35}\oplus$

$k_{71}k_{70}k_{61}k_{58}k_{35} \oplus k_{79}k_{78}k_{60}k_{59}k_{58}k_{35} \oplus k_{79}k_{78}k_{74}k_{60}k_{59}k_{58}k_{35}\oplus$

$k_{73}k_{60}k_{59}k_{58}k_{35} \oplus k_{72}k_{60}k_{59}k_{58}k_{35} \oplus k_{79}k_{78}k_{73}k_{72}k_{60}k_{59}k_{58}k_{35}\oplus$

$k_{72}k_{71}k_{60}k_{59}k_{58}k_{35} \oplus k_{71}k_{70}k_{60}k_{59}k_{58}k_{35} \oplus k_{74}k_{58}k_{57}k_{35} \oplus k_{72}k_{58}k_{57}k_{35}\oplus$

$k_{73}k_{72}k_{58}k_{57}k_{35} \oplus k_{71}k_{70}k_{58}k_{57}k_{35} \oplus k_{61}k_{58}k_{57}k_{35} \oplus k_{79}k_{78}k_{61}k_{58}k_{57}k_{35}\oplus$

$k_{79}k_{78}k_{74}k_{61}k_{58}k_{57}k_{35} \oplus k_{73}k_{61}k_{58}k_{57}k_{35} \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_{58}k_{57}k_{35}\oplus$

$k_{72}k_{71}k_{61}k_{58}k_{57}k_{35} \oplus k_{79}k_{78}k_{60}k_{59}k_{58}k_{57}k_{35} \oplus k_{79}k_{78}k_{74}k_{60}k_{59}k_{58}k_{57}k_{35}\oplus$

$k_{73}k_{60}k_{59}k_{58}k_{57}k_{35} \oplus k_{79}k_{78}k_{73}k_{72}k_{60}k_{59}k_{58}k_{57}k_{35}\oplus$

$k_{72}k_{71}k_{60}k_{59}k_{58}k_{57}k_{35} \oplus k_{79}k_{78}k_{55}k_{35} \oplus k_{71}k_{55}k_{35} \oplus k_{70}k_{69}k_{55}k_{35}\oplus$

$k_{59}k_{55}k_{35} \oplus k_{58}k_{55}k_{35} \oplus k_{58}k_{57}k_{55}k_{35} \oplus k_{76}k_{54}k_{35} \oplus k_{75}k_{74}k_{54}k_{35}\oplus$

$k_{71}k_{54}k_{35} \oplus k_{74}k_{71}k_{54}k_{35} \oplus k_{73}k_{72}k_{71}k_{54}k_{35} \oplus k_{70}k_{69}k_{54}k_{35}\oplus$

$k_{74}k_{70}k_{69}k_{54}k_{35} \oplus k_{73}k_{72}k_{70}k_{69}k_{54}k_{35} \oplus k_{74}k_{61}k_{54}k_{35} \oplus k_{73}k_{72}k_{61}k_{54}k_{35}\oplus$

$k_{71}k_{61}k_{54}k_{35} \oplus k_{70}k_{69}k_{61}k_{54}k_{35} \oplus k_{59}k_{54}k_{35} \oplus k_{74}k_{59}k_{54}k_{35}\oplus$

$$k_{73}k_{72}k_{59}k_{54}k_{35} \oplus k_{61}k_{59}k_{54}k_{35} \oplus k_{60}k_{59}k_{54}k_{35} \oplus k_{74}k_{60}k_{59}k_{54}k_{35} \oplus$$

$$k_{73}k_{72}k_{60}k_{59}k_{54}k_{35} \oplus k_{71}k_{60}k_{59}k_{54}k_{35} \oplus k_{70}k_{69}k_{60}k_{59}k_{54}k_{35} \oplus k_{58}k_{54}k_{35} \oplus$$

$$k_{74}k_{58}k_{54}k_{35} \oplus k_{73}k_{72}k_{58}k_{54}k_{35} \oplus k_{61}k_{58}k_{54}k_{35} \oplus k_{60}k_{59}k_{58}k_{54}k_{35} \oplus$$

$$k_{58}k_{57}k_{54}k_{35} \oplus k_{74}k_{58}k_{57}k_{54}k_{35} \oplus k_{73}k_{72}k_{58}k_{57}k_{54}k_{35} \oplus k_{61}k_{58}k_{57}k_{54}k_{35} \oplus$$

$$k_{60}k_{59}k_{58}k_{57}k_{54}k_{35} \oplus k_{53}k_{35} \oplus k_{74}k_{53}k_{35} \oplus k_{73}k_{53}k_{35} \oplus k_{73}k_{72}k_{53}k_{35} \oplus$$

$$k_{72}k_{71}k_{53}k_{35} \oplus k_{61}k_{53}k_{35} \oplus k_{71}k_{61}k_{53}k_{35} \oplus k_{74}k_{71}k_{61}k_{53}k_{35} \oplus$$

$$k_{73}k_{72}k_{71}k_{61}k_{53}k_{35} \oplus k_{70}k_{69}k_{61}k_{53}k_{35} \oplus k_{74}k_{70}k_{69}k_{61}k_{53}k_{35} \oplus$$

$$k_{73}k_{72}k_{70}k_{69}k_{61}k_{53}k_{35} \oplus k_{61}k_{59}k_{53}k_{35} \oplus k_{74}k_{61}k_{59}k_{53}k_{35} \oplus$$

$$k_{73}k_{72}k_{61}k_{59}k_{53}k_{35} \oplus k_{60}k_{59}k_{53}k_{35} \oplus k_{74}k_{60}k_{59}k_{53}k_{35} \oplus$$

$$k_{73}k_{72}k_{60}k_{59}k_{53}k_{35} \oplus k_{71}k_{60}k_{59}k_{53}k_{35} \oplus k_{74}k_{71}k_{60}k_{59}k_{53}k_{35} \oplus$$

$$k_{73}k_{72}k_{71}k_{60}k_{59}k_{53}k_{35} \oplus k_{70}k_{69}k_{60}k_{59}k_{53}k_{35} \oplus k_{74}k_{70}k_{69}k_{60}k_{59}k_{53}k_{35} \oplus$$

$$k_{73}k_{72}k_{70}k_{69}k_{60}k_{59}k_{53}k_{35} \oplus k_{61}k_{58}k_{53}k_{35} \oplus k_{74}k_{61}k_{58}k_{53}k_{35} \oplus$$

$$k_{73}k_{72}k_{61}k_{58}k_{53}k_{35} \oplus k_{60}k_{59}k_{58}k_{53}k_{35} \oplus k_{74}k_{60}k_{59}k_{58}k_{53}k_{35} \oplus$$

$$k_{73}k_{72}k_{60}k_{59}k_{58}k_{53}k_{35} \oplus k_{61}k_{58}k_{57}k_{53}k_{35} \oplus k_{74}k_{61}k_{58}k_{57}k_{53}k_{35} \oplus$$

$$k_{73}k_{72}k_{61}k_{58}k_{57}k_{53}k_{35} \oplus k_{60}k_{59}k_{58}k_{57}k_{53}k_{35} \oplus k_{74}k_{60}k_{59}k_{58}k_{57}k_{53}k_{35} \oplus$$

$$k_{73}k_{72}k_{60}k_{59}k_{58}k_{57}k_{53}k_{35} \oplus k_{55}k_{53}k_{35} \oplus k_{75}k_{50}k_{35} \oplus k_{74}k_{73}k_{50}k_{35} \oplus$$

$$k_{61}k_{50}k_{35} \oplus k_{60}k_{59}k_{50}k_{35} \oplus k_{58}k_{50}k_{35} \oplus k_{49}k_{35} \oplus k_{75}k_{49}k_{35} \oplus$$

$$k_{74}k_{73}k_{49}k_{35} \oplus k_{58}k_{49}k_{35} \oplus k_{75}k_{58}k_{49}k_{35} \oplus k_{74}k_{73}k_{58}k_{49}k_{35} \oplus k_{54}k_{49}k_{35} \oplus$$

$$k_{48}k_{35} \oplus k_{77}k_{48}k_{35} \oplus k_{76}k_{48}k_{35} \oplus k_{76}k_{75}k_{48}k_{35} \oplus k_{75}k_{74}k_{48}k_{35} \oplus$$

$$k_{58}k_{48}k_{35} \oplus k_{76}k_{58}k_{48}k_{35} \oplus k_{75}k_{74}k_{58}k_{48}k_{35} \oplus k_{50}k_{48}k_{35} \oplus k_{49}k_{48}k_{35} \oplus$$

$$k_{61}k_{49}k_{48}k_{35} \oplus k_{60}k_{59}k_{49}k_{48}k_{35} \oplus k_{58}k_{49}k_{48}k_{35} \oplus k_{47}k_{35} \oplus k_{79}k_{78}k_{47}k_{35} \oplus$$

$$k_{71}k_{47}k_{35} \oplus k_{70}k_{69}k_{47}k_{35} \oplus k_{79}k_{78}k_{71}k_{61}k_{47}k_{35} \oplus k_{79}k_{78}k_{70}k_{69}k_{61}k_{47}k_{35} \oplus$$

$$k_{59}k_{47}k_{35} \oplus k_{79}k_{78}k_{61}k_{59}k_{47}k_{35} \oplus k_{79}k_{78}k_{60}k_{59}k_{47}k_{35} \oplus$$

$$k_{79}k_{78}k_{71}k_{60}k_{59}k_{47}k_{35} \oplus k_{79}k_{78}k_{70}k_{69}k_{60}k_{59}k_{47}k_{35} \oplus k_{58}k_{47}k_{35} \oplus$$

$$k_{79}k_{78}k_{61}k_{58}k_{47}k_{35} \oplus k_{79}k_{78}k_{60}k_{59}k_{58}k_{47}k_{35} \oplus k_{58}k_{57}k_{47}k_{35} \oplus$$

$$k_{79}k_{78}k_{61}k_{58}k_{57}k_{47}k_{35} \oplus k_{79}k_{78}k_{60}k_{59}k_{58}k_{57}k_{47}k_{35} \oplus k_{71}k_{54}k_{47}k_{35} \oplus$$

$$k_{70}k_{69}k_{54}k_{47}k_{35} \oplus k_{61}k_{54}k_{47}k_{35} \oplus k_{59}k_{54}k_{47}k_{35} \oplus k_{60}k_{59}k_{54}k_{47}k_{35} \oplus$$

$$k_{58}k_{54}k_{47}k_{35} \oplus k_{58}k_{57}k_{54}k_{47}k_{35} \oplus k_{53}k_{47}k_{35} \oplus k_{71}k_{61}k_{53}k_{47}k_{35} \oplus$$

$$k_{70}k_{69}k_{61}k_{53}k_{47}k_{35} \oplus k_{61}k_{59}k_{53}k_{47}k_{35} \oplus k_{60}k_{59}k_{53}k_{47}k_{35} \oplus$$

$$k_{71}k_{60}k_{59}k_{53}k_{47}k_{35} \oplus k_{70}k_{69}k_{60}k_{59}k_{53}k_{47}k_{35} \oplus k_{61}k_{58}k_{53}k_{47}k_{35} \oplus$$

$$k_{60}k_{59}k_{58}k_{53}k_{47}k_{35} \oplus k_{61}k_{58}k_{57}k_{53}k_{47}k_{35} \oplus k_{60}k_{59}k_{58}k_{57}k_{53}k_{47}k_{35} \oplus$$

$$k_{79}k_{78}k_{46}k_{35} \oplus k_{61}k_{46}k_{35} \oplus k_{71}k_{61}k_{46}k_{35} \oplus k_{70}k_{69}k_{61}k_{46}k_{35} \oplus$$

$$k_{61}k_{59}k_{46}k_{35} \oplus k_{71}k_{60}k_{59}k_{46}k_{35} \oplus k_{70}k_{69}k_{60}k_{59}k_{46}k_{35} \oplus k_{58}k_{46}k_{35} \oplus$$

$$k_{61}k_{58}k_{46}k_{35} \oplus k_{60}k_{59}k_{58}k_{46}k_{35} \oplus k_{61}k_{58}k_{57}k_{46}k_{35} \oplus k_{60}k_{59}k_{58}k_{57}k_{46}k_{35} \oplus$$

$$k_{53}k_{46}k_{35} \oplus k_{71}k_{45}k_{35} \oplus k_{70}k_{69}k_{45}k_{35} \oplus k_{61}k_{45}k_{35} \oplus k_{59}k_{45}k_{35} \oplus$$

$$k_{60}k_{59}k_{45}k_{35} \oplus k_{58}k_{45}k_{35} \oplus k_{61}k_{58}k_{45}k_{35} \oplus k_{60}k_{59}k_{58}k_{45}k_{35} \oplus$$

$k_{58}k_{57}k_{45}k_{35} \oplus k_{74}k_{44}k_{35} \oplus k_{72}k_{44}k_{35} \oplus k_{73}k_{72}k_{44}k_{35} \oplus k_{71}k_{70}k_{44}k_{35}\oplus$

$k_{61}k_{44}k_{35} \oplus k_{79}k_{78}k_{61}k_{44}k_{35} \oplus k_{79}k_{78}k_{74}k_{61}k_{44}k_{35} \oplus k_{73}k_{61}k_{44}k_{35}\oplus$

$k_{79}k_{78}k_{73}k_{72}k_{61}k_{44}k_{35} \oplus k_{72}k_{71}k_{61}k_{44}k_{35} \oplus k_{79}k_{78}k_{60}k_{59}k_{44}k_{35}\oplus$

$k_{79}k_{78}k_{74}k_{60}k_{59}k_{44}k_{35} \oplus k_{73}k_{60}k_{59}k_{44}k_{35} \oplus k_{79}k_{78}k_{73}k_{72}k_{60}k_{59}k_{44}k_{35}\oplus$

$k_{72}k_{71}k_{60}k_{59}k_{44}k_{35} \oplus k_{55}k_{44}k_{35} \oplus k_{54}k_{44}k_{35} \oplus k_{74}k_{54}k_{44}k_{35}\oplus$

$k_{73}k_{72}k_{54}k_{44}k_{35} \oplus k_{61}k_{54}k_{44}k_{35} \oplus k_{60}k_{59}k_{54}k_{44}k_{35} \oplus k_{61}k_{53}k_{44}k_{35}\oplus$

$k_{74}k_{61}k_{53}k_{44}k_{35} \oplus k_{73}k_{72}k_{61}k_{53}k_{44}k_{35} \oplus k_{60}k_{59}k_{53}k_{44}k_{35}\oplus$

$k_{74}k_{60}k_{59}k_{53}k_{44}k_{35} \oplus k_{73}k_{72}k_{60}k_{59}k_{53}k_{44}k_{35} \oplus k_{47}k_{44}k_{35}\oplus$

$k_{79}k_{78}k_{61}k_{47}k_{44}k_{35} \oplus k_{79}k_{78}k_{60}k_{59}k_{47}k_{44}k_{35} \oplus k_{54}k_{47}k_{44}k_{35}\oplus$

$k_{61}k_{53}k_{47}k_{44}k_{35} \oplus k_{60}k_{59}k_{53}k_{47}k_{44}k_{35} \oplus k_{61}k_{46}k_{44}k_{35} \oplus k_{60}k_{59}k_{46}k_{44}k_{35}\oplus$

$k_{45}k_{44}k_{35} \oplus k_{58}k_{41}k_{35} \oplus k_{74}k_{36}k_{35} \oplus k_{73}k_{72}k_{36}k_{35} \oplus k_{47}k_{36}k_{35}\oplus$

$k_{79}k_{78}k_{34} \oplus k_{79}k_{78}k_{74}k_{34} \oplus k_{79}k_{78}k_{73}k_{34} \oplus k_{79}k_{78}k_{73}k_{72}k_{34} \oplus k_{71}k_{34}\oplus$

$k_{74}k_{71}k_{34} \oplus k_{72}k_{71}k_{34} \oplus k_{79}k_{78}k_{72}k_{71}k_{34} \oplus k_{73}k_{72}k_{71}k_{34} \oplus k_{71}k_{70}k_{34}\oplus$

$k_{70}k_{69}k_{34} \oplus k_{74}k_{70}k_{69}k_{34} \oplus k_{72}k_{70}k_{69}k_{34} \oplus k_{73}k_{72}k_{70}k_{69}k_{34}\oplus$

$k_{71}k_{70}k_{69}k_{34} \oplus k_{73}k_{62}k_{34} \oplus k_{72}k_{62}k_{34} \oplus k_{79}k_{78}k_{71}k_{62}k_{34}\oplus$

$k_{79}k_{78}k_{74}k_{71}k_{62}k_{34} \oplus k_{73}k_{71}k_{62}k_{34} \oplus k_{79}k_{78}k_{73}k_{72}k_{71}k_{62}k_{34}\oplus$

$k_{71}k_{70}k_{62}k_{34} \oplus k_{79}k_{78}k_{70}k_{69}k_{62}k_{34} \oplus k_{79}k_{78}k_{74}k_{70}k_{69}k_{62}k_{34}\oplus$

$k_{73}k_{70}k_{69}k_{62}k_{34} \oplus k_{79}k_{78}k_{73}k_{72}k_{70}k_{69}k_{62}k_{34} \oplus k_{72}k_{71}k_{70}k_{69}k_{62}k_{34}\oplus$

$k_{79}k_{78}k_{61}k_{34} \oplus k_{71}k_{61}k_{34} \oplus k_{70}k_{69}k_{61}k_{34} \oplus k_{73}k_{61}k_{60}k_{34} \oplus k_{72}k_{61}k_{60}k_{34}\oplus$

$k_{79}k_{78}k_{71}k_{61}k_{60}k_{34} \oplus k_{79}k_{78}k_{74}k_{71}k_{61}k_{60}k_{34} \oplus k_{73}k_{71}k_{61}k_{60}k_{34}\oplus$

$k_{79}k_{78}k_{73}k_{72}k_{71}k_{61}k_{60}k_{34} \oplus k_{71}k_{70}k_{61}k_{60}k_{34} \oplus k_{79}k_{78}k_{70}k_{69}k_{61}k_{60}k_{34}\oplus$

$k_{79}k_{78}k_{74}k_{70}k_{69}k_{61}k_{60}k_{34} \oplus k_{73}k_{70}k_{69}k_{61}k_{60}k_{34}\oplus$

$k_{79}k_{78}k_{73}k_{72}k_{70}k_{69}k_{61}k_{60}k_{34} \oplus k_{72}k_{71}k_{70}k_{69}k_{61}k_{60}k_{34} \oplus k_{59}k_{34}\oplus$

$k_{74}k_{59}k_{34} \oplus k_{72}k_{59}k_{34} \oplus k_{73}k_{72}k_{59}k_{34} \oplus k_{71}k_{70}k_{59}k_{34} \oplus k_{79}k_{78}k_{62}k_{59}k_{34}\oplus$

$k_{79}k_{78}k_{74}k_{62}k_{59}k_{34} \oplus k_{73}k_{62}k_{59}k_{34} \oplus k_{79}k_{78}k_{73}k_{72}k_{62}k_{59}k_{34}\oplus$

$k_{72}k_{71}k_{62}k_{59}k_{34} \oplus k_{61}k_{59}k_{34} \oplus k_{79}k_{78}k_{61}k_{60}k_{59}k_{34}\oplus$

$k_{79}k_{78}k_{74}k_{61}k_{60}k_{59}k_{34} \oplus k_{73}k_{61}k_{60}k_{59}k_{34} \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_{60}k_{59}k_{34}\oplus$

$k_{72}k_{71}k_{61}k_{60}k_{59}k_{34} \oplus k_{77}k_{58}k_{34} \oplus k_{76}k_{58}k_{34} \oplus k_{74}k_{58}k_{34} \oplus k_{73}k_{58}k_{34}\oplus$

$k_{76}k_{74}k_{73}k_{58}k_{34} \oplus k_{75}k_{74}k_{73}k_{58}k_{34} \oplus k_{72}k_{58}k_{34} \oplus k_{73}k_{72}k_{58}k_{34}\oplus$

$k_{72}k_{71}k_{58}k_{34} \oplus k_{71}k_{70}k_{58}k_{34} \oplus k_{79}k_{78}k_{62}k_{58}k_{34} \oplus k_{79}k_{78}k_{74}k_{62}k_{58}k_{34}\oplus$

$k_{73}k_{62}k_{58}k_{34} \oplus k_{72}k_{62}k_{58}k_{34} \oplus k_{79}k_{78}k_{73}k_{72}k_{62}k_{58}k_{34} \oplus k_{72}k_{71}k_{62}k_{58}k_{34}\oplus$

$k_{71}k_{70}k_{62}k_{58}k_{34} \oplus k_{61}k_{58}k_{34} \oplus k_{79}k_{78}k_{61}k_{60}k_{58}k_{34}\oplus$

$k_{79}k_{78}k_{74}k_{61}k_{60}k_{58}k_{34} \oplus k_{73}k_{61}k_{60}k_{58}k_{34} \oplus k_{72}k_{61}k_{60}k_{58}k_{34}\oplus$

$k_{79}k_{78}k_{73}k_{72}k_{61}k_{60}k_{58}k_{34} \oplus k_{72}k_{71}k_{61}k_{60}k_{58}k_{34} \oplus k_{71}k_{70}k_{61}k_{60}k_{58}k_{34}\oplus$

$k_{58}k_{57}k_{34} \oplus k_{74}k_{58}k_{57}k_{34} \oplus k_{72}k_{58}k_{57}k_{34} \oplus k_{73}k_{72}k_{58}k_{57}k_{34}\oplus$

$k_{71}k_{70}k_{58}k_{57}k_{34} \oplus k_{79}k_{78}k_{62}k_{58}k_{57}k_{34} \oplus k_{79}k_{78}k_{74}k_{62}k_{58}k_{57}k_{34}\oplus$

$k_{73}k_{62}k_{58}k_{57}k_{34} \oplus k_{79}k_{78}k_{73}k_{72}k_{62}k_{58}k_{57}k_{34} \oplus k_{72}k_{71}k_{62}k_{58}k_{57}k_{34}\oplus$

$k_{61}k_{58}k_{57}k_{34} \oplus k_{79}k_{78}k_{61}k_{60}k_{58}k_{57}k_{34} \oplus k_{79}k_{78}k_{74}k_{61}k_{60}k_{58}k_{57}k_{34}\oplus$

$k_{73}k_{61}k_{60}k_{58}k_{57}k_{34} \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_{60}k_{58}k_{57}k_{34}\oplus$

$k_{72}k_{71}k_{61}k_{60}k_{58}k_{57}k_{34} \oplus k_{79}k_{78}k_{55}k_{34} \oplus k_{71}k_{55}k_{34} \oplus k_{70}k_{69}k_{55}k_{34}\oplus$

$k_{59}k_{55}k_{34} \oplus k_{58}k_{55}k_{34} \oplus k_{58}k_{57}k_{55}k_{34} \oplus k_{54}k_{34} \oplus k_{71}k_{54}k_{34}\oplus$

$k_{74}k_{71}k_{54}k_{34} \oplus k_{73}k_{72}k_{71}k_{54}k_{34} \oplus k_{70}k_{69}k_{54}k_{34} \oplus k_{74}k_{70}k_{69}k_{54}k_{34}\oplus$

$k_{73}k_{72}k_{70}k_{69}k_{54}k_{34} \oplus k_{74}k_{62}k_{54}k_{34} \oplus k_{73}k_{72}k_{62}k_{54}k_{34} \oplus k_{71}k_{62}k_{54}k_{34}\oplus$

$k_{70}k_{69}k_{62}k_{54}k_{34} \oplus k_{74}k_{61}k_{60}k_{54}k_{34} \oplus k_{73}k_{72}k_{61}k_{60}k_{54}k_{34}\oplus$

$k_{71}k_{61}k_{60}k_{54}k_{34} \oplus k_{70}k_{69}k_{61}k_{60}k_{54}k_{34} \oplus k_{59}k_{54}k_{34} \oplus k_{74}k_{59}k_{54}k_{34}\oplus$

$k_{73}k_{72}k_{59}k_{54}k_{34} \oplus k_{62}k_{59}k_{54}k_{34} \oplus k_{61}k_{60}k_{59}k_{54}k_{34} \oplus k_{58}k_{54}k_{34}\oplus$

$k_{74}k_{58}k_{54}k_{34} \oplus k_{73}k_{72}k_{58}k_{54}k_{34} \oplus k_{62}k_{58}k_{54}k_{34} \oplus k_{61}k_{60}k_{58}k_{54}k_{34}\oplus$

$k_{58}k_{57}k_{54}k_{34} \oplus k_{74}k_{58}k_{57}k_{54}k_{34} \oplus k_{73}k_{72}k_{58}k_{57}k_{54}k_{34} \oplus k_{62}k_{58}k_{57}k_{54}k_{34}\oplus$

$k_{61}k_{60}k_{58}k_{57}k_{54}k_{34} \oplus k_{53}k_{34} \oplus k_{74}k_{53}k_{34} \oplus k_{73}k_{53}k_{34} \oplus k_{73}k_{72}k_{53}k_{34}\oplus$

$k_{72}k_{71}k_{53}k_{34} \oplus k_{71}k_{62}k_{53}k_{34} \oplus k_{74}k_{71}k_{62}k_{53}k_{34} \oplus k_{73}k_{72}k_{71}k_{62}k_{53}k_{34}\oplus$

$k_{70}k_{69}k_{62}k_{53}k_{34} \oplus k_{74}k_{70}k_{69}k_{62}k_{53}k_{34} \oplus k_{73}k_{72}k_{70}k_{69}k_{62}k_{53}k_{34}\oplus$

$k_{61}k_{53}k_{34} \oplus k_{71}k_{61}k_{60}k_{53}k_{34} \oplus k_{74}k_{71}k_{61}k_{60}k_{53}k_{34}\oplus$

$k_{73}k_{72}k_{71}k_{61}k_{60}k_{53}k_{34} \oplus k_{70}k_{69}k_{61}k_{60}k_{53}k_{34} \oplus k_{74}k_{70}k_{69}k_{61}k_{60}k_{53}k_{34}\oplus$

$k_{73}k_{72}k_{70}k_{69}k_{61}k_{60}k_{53}k_{34} \oplus k_{62}k_{59}k_{53}k_{34} \oplus k_{74}k_{62}k_{59}k_{53}k_{34}\oplus$

$k_{73}k_{72}k_{62}k_{59}k_{53}k_{34} \oplus k_{61}k_{60}k_{59}k_{53}k_{34} \oplus k_{74}k_{61}k_{60}k_{59}k_{53}k_{34}\oplus$

$k_{73}k_{72}k_{61}k_{60}k_{59}k_{53}k_{34} \oplus k_{62}k_{58}k_{53}k_{34} \oplus k_{74}k_{62}k_{58}k_{53}k_{34}\oplus$

$k_{73}k_{72}k_{62}k_{58}k_{53}k_{34} \oplus k_{61}k_{60}k_{58}k_{53}k_{34} \oplus k_{74}k_{61}k_{60}k_{58}k_{53}k_{34}\oplus$

$k_{73}k_{72}k_{61}k_{60}k_{58}k_{53}k_{34} \oplus k_{62}k_{58}k_{57}k_{53}k_{34} \oplus k_{74}k_{62}k_{58}k_{57}k_{53}k_{34}\oplus$

$k_{73}k_{72}k_{62}k_{58}k_{57}k_{53}k_{34} \oplus k_{61}k_{60}k_{58}k_{57}k_{53}k_{34} \oplus k_{74}k_{61}k_{60}k_{58}k_{57}k_{53}k_{34}\oplus$

$k_{73}k_{72}k_{61}k_{60}k_{58}k_{57}k_{53}k_{34} \oplus k_{55}k_{53}k_{34} \oplus k_{51}k_{34} \oplus k_{50}k_{34} \oplus k_{62}k_{50}k_{34}\oplus$

$k_{61}k_{60}k_{50}k_{34} \oplus k_{58}k_{50}k_{34} \oplus k_{58}k_{49}k_{34} \oplus k_{75}k_{58}k_{49}k_{34} \oplus k_{74}k_{73}k_{58}k_{49}k_{34}\oplus$

$k_{76}k_{58}k_{48}k_{34} \oplus k_{75}k_{74}k_{58}k_{48}k_{34} \oplus k_{62}k_{49}k_{48}k_{34} \oplus k_{61}k_{60}k_{49}k_{48}k_{34}\oplus$

$k_{58}k_{49}k_{48}k_{34} \oplus k_{79}k_{78}k_{47}k_{34} \oplus k_{71}k_{47}k_{34} \oplus k_{70}k_{69}k_{47}k_{34}\oplus$

$k_{79}k_{78}k_{71}k_{62}k_{47}k_{34} \oplus k_{79}k_{78}k_{70}k_{69}k_{62}k_{47}k_{34} \oplus k_{79}k_{78}k_{71}k_{61}k_{60}k_{47}k_{34}\oplus$

$k_{79}k_{78}k_{70}k_{69}k_{61}k_{60}k_{47}k_{34} \oplus k_{59}k_{47}k_{34} \oplus k_{79}k_{78}k_{62}k_{59}k_{47}k_{34}\oplus$

$k_{79}k_{78}k_{61}k_{60}k_{59}k_{47}k_{34} \oplus k_{58}k_{47}k_{34} \oplus k_{79}k_{78}k_{62}k_{58}k_{47}k_{34}\oplus$

$k_{79}k_{78}k_{61}k_{60}k_{58}k_{47}k_{34} \oplus k_{58}k_{57}k_{47}k_{34} \oplus k_{79}k_{78}k_{62}k_{58}k_{57}k_{47}k_{34}\oplus$

$k_{79}k_{78}k_{61}k_{60}k_{58}k_{57}k_{47}k_{34} \oplus k_{71}k_{54}k_{47}k_{34} \oplus k_{70}k_{69}k_{54}k_{47}k_{34}\oplus$

$k_{62}k_{54}k_{47}k_{34} \oplus k_{61}k_{60}k_{54}k_{47}k_{34} \oplus k_{59}k_{54}k_{47}k_{34} \oplus k_{58}k_{54}k_{47}k_{34}\oplus$

$k_{58}k_{57}k_{54}k_{47}k_{34} \oplus k_{53}k_{47}k_{34} \oplus k_{71}k_{62}k_{53}k_{47}k_{34} \oplus k_{70}k_{69}k_{62}k_{53}k_{47}k_{34}\oplus$

$k_{71}k_{61}k_{60}k_{53}k_{47}k_{34} \oplus k_{70}k_{69}k_{61}k_{60}k_{53}k_{47}k_{34} \oplus k_{62}k_{59}k_{53}k_{47}k_{34}\oplus$

$k_{61}k_{60}k_{59}k_{53}k_{47}k_{34} \oplus k_{62}k_{58}k_{53}k_{47}k_{34} \oplus k_{61}k_{60}k_{58}k_{53}k_{47}k_{34}\oplus$

$$k_{62}k_{58}k_{57}k_{53}k_{47}k_{34} \oplus k_{61}k_{60}k_{58}k_{57}k_{53}k_{47}k_{34} \oplus k_{50}k_{48}k_{47}k_{34} \oplus$$

$$k_{49}k_{48}k_{47}k_{34} \oplus k_{79}k_{78}k_{46}k_{34} \oplus k_{62}k_{46}k_{34} \oplus k_{71}k_{62}k_{46}k_{34} \oplus$$

$$k_{70}k_{69}k_{62}k_{46}k_{34} \oplus k_{61}k_{60}k_{46}k_{34} \oplus k_{71}k_{61}k_{60}k_{46}k_{34} \oplus k_{70}k_{69}k_{61}k_{60}k_{46}k_{34} \oplus$$

$$k_{62}k_{59}k_{46}k_{34} \oplus k_{61}k_{60}k_{59}k_{46}k_{34} \oplus k_{58}k_{46}k_{34} \oplus k_{62}k_{58}k_{46}k_{34} \oplus$$

$$k_{61}k_{60}k_{58}k_{46}k_{34} \oplus k_{62}k_{58}k_{57}k_{46}k_{34} \oplus k_{61}k_{60}k_{58}k_{57}k_{46}k_{34} \oplus k_{53}k_{46}k_{34} \oplus$$

$$k_{71}k_{45}k_{34} \oplus k_{70}k_{69}k_{45}k_{34} \oplus k_{62}k_{45}k_{34} \oplus k_{61}k_{60}k_{45}k_{34} \oplus k_{59}k_{45}k_{34} \oplus$$

$$k_{58}k_{45}k_{34} \oplus k_{62}k_{58}k_{45}k_{34} \oplus k_{61}k_{60}k_{58}k_{45}k_{34} \oplus k_{58}k_{57}k_{45}k_{34} \oplus k_{74}k_{44}k_{34} \oplus$$

$$k_{72}k_{44}k_{34} \oplus k_{73}k_{72}k_{44}k_{34} \oplus k_{71}k_{70}k_{44}k_{34} \oplus k_{79}k_{78}k_{62}k_{44}k_{34} \oplus$$

$$k_{79}k_{78}k_{74}k_{62}k_{44}k_{34} \oplus k_{73}k_{62}k_{44}k_{34} \oplus k_{79}k_{78}k_{73}k_{72}k_{62}k_{44}k_{34} \oplus$$

$$k_{72}k_{71}k_{62}k_{44}k_{34} \oplus k_{61}k_{44}k_{34} \oplus k_{79}k_{78}k_{61}k_{60}k_{44}k_{34} \oplus$$

$$k_{79}k_{78}k_{74}k_{61}k_{60}k_{44}k_{34} \oplus k_{73}k_{61}k_{60}k_{44}k_{34} \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_{60}k_{44}k_{34} \oplus$$

$$k_{72}k_{71}k_{61}k_{60}k_{44}k_{34} \oplus k_{55}k_{44}k_{34} \oplus k_{54}k_{44}k_{34} \oplus k_{74}k_{54}k_{44}k_{34} \oplus$$

$$k_{73}k_{72}k_{54}k_{44}k_{34} \oplus k_{62}k_{54}k_{44}k_{34} \oplus k_{61}k_{60}k_{54}k_{44}k_{34} \oplus k_{62}k_{53}k_{44}k_{34} \oplus$$

$$k_{74}k_{62}k_{53}k_{44}k_{34} \oplus k_{73}k_{72}k_{62}k_{53}k_{44}k_{34} \oplus k_{61}k_{60}k_{53}k_{44}k_{34} \oplus$$

$$k_{74}k_{61}k_{60}k_{53}k_{44}k_{34} \oplus k_{73}k_{72}k_{61}k_{60}k_{53}k_{44}k_{34} \oplus k_{47}k_{44}k_{34} \oplus$$

$$k_{79}k_{78}k_{62}k_{47}k_{44}k_{34} \oplus k_{79}k_{78}k_{61}k_{60}k_{47}k_{44}k_{34} \oplus k_{54}k_{47}k_{44}k_{34} \oplus$$

$$k_{62}k_{53}k_{47}k_{44}k_{34} \oplus k_{61}k_{60}k_{53}k_{47}k_{44}k_{34} \oplus k_{62}k_{46}k_{44}k_{34} \oplus k_{61}k_{60}k_{46}k_{44}k_{34} \oplus$$

$$k_{45}k_{44}k_{34} \oplus k_{58}k_{41}k_{34} \oplus k_{36}k_{34} \oplus k_{35}k_{34} \oplus k_{73}k_{35}k_{34} \oplus k_{72}k_{35}k_{34} \oplus$$

$$k_{79}k_{78}k_{71}k_{35}k_{34} \oplus k_{79}k_{78}k_{74}k_{71}k_{35}k_{34} \oplus k_{73}k_{71}k_{35}k_{34} \oplus$$

$$k_{79}k_{78}k_{73}k_{72}k_{71}k_{35}k_{34} \oplus k_{71}k_{70}k_{35}k_{34} \oplus k_{79}k_{78}k_{70}k_{69}k_{35}k_{34} \oplus$$

$$k_{79}k_{78}k_{74}k_{70}k_{69}k_{35}k_{34} \oplus k_{73}k_{70}k_{69}k_{35}k_{34} \oplus k_{79}k_{78}k_{73}k_{72}k_{70}k_{69}k_{35}k_{34} \oplus$$

$$k_{72}k_{71}k_{70}k_{69}k_{35}k_{34} \oplus k_{61}k_{35}k_{34} \oplus k_{79}k_{78}k_{59}k_{35}k_{34} \oplus k_{79}k_{78}k_{74}k_{59}k_{35}k_{34} \oplus$$

$$k_{73}k_{59}k_{35}k_{34} \oplus k_{79}k_{78}k_{73}k_{72}k_{59}k_{35}k_{34} \oplus k_{72}k_{71}k_{59}k_{35}k_{34} \oplus k_{60}k_{59}k_{35}k_{34} \oplus$$

$$k_{79}k_{78}k_{58}k_{35}k_{34} \oplus k_{79}k_{78}k_{74}k_{58}k_{35}k_{34} \oplus k_{73}k_{58}k_{35}k_{34} \oplus k_{72}k_{58}k_{35}k_{34} \oplus$$

$$k_{79}k_{78}k_{73}k_{72}k_{58}k_{35}k_{34} \oplus k_{72}k_{71}k_{58}k_{35}k_{34} \oplus k_{71}k_{70}k_{58}k_{35}k_{34} \oplus$$

$$k_{79}k_{78}k_{58}k_{57}k_{35}k_{34} \oplus k_{79}k_{78}k_{74}k_{58}k_{57}k_{35}k_{34} \oplus k_{73}k_{58}k_{57}k_{35}k_{34} \oplus$$

$$k_{79}k_{78}k_{73}k_{72}k_{58}k_{57}k_{35}k_{34} \oplus k_{72}k_{71}k_{58}k_{57}k_{35}k_{34} \oplus k_{74}k_{54}k_{35}k_{34} \oplus$$

$$k_{73}k_{72}k_{54}k_{35}k_{34} \oplus k_{71}k_{54}k_{35}k_{34} \oplus k_{70}k_{69}k_{54}k_{35}k_{34} \oplus k_{59}k_{54}k_{35}k_{34} \oplus$$

$$k_{58}k_{54}k_{35}k_{34} \oplus k_{58}k_{57}k_{54}k_{35}k_{34} \oplus k_{71}k_{53}k_{35}k_{34} \oplus k_{74}k_{71}k_{53}k_{35}k_{34} \oplus$$

$$k_{73}k_{72}k_{71}k_{53}k_{35}k_{34} \oplus k_{70}k_{69}k_{53}k_{35}k_{34} \oplus k_{74}k_{70}k_{69}k_{53}k_{35}k_{34} \oplus$$

$$k_{73}k_{72}k_{70}k_{69}k_{53}k_{35}k_{34} \oplus k_{59}k_{53}k_{35}k_{34} \oplus k_{74}k_{59}k_{53}k_{35}k_{34} \oplus$$

$$k_{73}k_{72}k_{59}k_{53}k_{35}k_{34} \oplus k_{58}k_{53}k_{35}k_{34} \oplus k_{74}k_{58}k_{53}k_{35}k_{34} \oplus$$

$$k_{73}k_{72}k_{58}k_{53}k_{35}k_{34} \oplus k_{58}k_{57}k_{53}k_{35}k_{34} \oplus k_{74}k_{58}k_{57}k_{53}k_{35}k_{34} \oplus$$

$$k_{73}k_{72}k_{58}k_{57}k_{53}k_{35}k_{34} \oplus k_{50}k_{35}k_{34} \oplus k_{49}k_{48}k_{35}k_{34} \oplus k_{79}k_{78}k_{71}k_{47}k_{35}k_{34} \oplus$$

$$k_{79}k_{78}k_{70}k_{69}k_{47}k_{35}k_{34} \oplus k_{79}k_{78}k_{59}k_{47}k_{35}k_{34} \oplus k_{79}k_{78}k_{58}k_{47}k_{35}k_{34} \oplus$$

$$k_{79}k_{78}k_{58}k_{57}k_{47}k_{35}k_{34} \oplus k_{54}k_{47}k_{35}k_{34} \oplus k_{71}k_{53}k_{47}k_{35}k_{34} \oplus$$

$$k_{70}k_{69}k_{53}k_{47}k_{35}k_{34} \oplus k_{59}k_{53}k_{47}k_{35}k_{34} \oplus k_{58}k_{53}k_{47}k_{35}k_{34} \oplus$$

$$k_{58}k_{57}k_{53}k_{47}k_{35}k_{34} \oplus k_{46}k_{35}k_{34} \oplus k_{71}k_{46}k_{35}k_{34} \oplus k_{70}k_{69}k_{46}k_{35}k_{34} \oplus$$

$$k_{59}k_{46}k_{35}k_{34} \oplus k_{58}k_{46}k_{35}k_{34} \oplus k_{58}k_{57}k_{46}k_{35}k_{34} \oplus k_{45}k_{35}k_{34} \oplus$$

$$k_{58}k_{45}k_{35}k_{34} \oplus k_{79}k_{78}k_{44}k_{35}k_{34} \oplus k_{79}k_{78}k_{74}k_{44}k_{35}k_{34} \oplus k_{73}k_{44}k_{35}k_{34} \oplus$$

$$k_{79}k_{78}k_{73}k_{72}k_{44}k_{35}k_{34} \oplus k_{72}k_{71}k_{44}k_{35}k_{34} \oplus k_{54}k_{44}k_{35}k_{34} \oplus k_{53}k_{44}k_{35}k_{34} \oplus$$

$$k_{74}k_{53}k_{44}k_{35}k_{34} \oplus k_{73}k_{72}k_{53}k_{44}k_{35}k_{34} \oplus k_{79}k_{78}k_{47}k_{44}k_{35}k_{34} \oplus$$

$$k_{53}k_{47}k_{44}k_{35}k_{34} \oplus k_{46}k_{44}k_{35}k_{34} \oplus k_{33} \oplus k_{79}k_{78}k_{33} \oplus k_{75}k_{33} \oplus k_{74}k_{33} \oplus$$

$$k_{74}k_{73}k_{33} \oplus k_{72}k_{33} \oplus k_{73}k_{72}k_{33} \oplus k_{71}k_{33} \oplus k_{71}k_{70}k_{33} \oplus k_{70}k_{69}k_{33} \oplus$$

$$k_{68}k_{33} \oplus k_{62}k_{33} \oplus k_{60}k_{33} \oplus k_{68}k_{60}k_{33} \oplus k_{61}k_{60}k_{33} \oplus k_{59}k_{33} \oplus k_{58}k_{33} \oplus$$

$$k_{58}k_{57}k_{33} \oplus k_{53}k_{33} \oplus k_{48}k_{33} \oplus k_{47}k_{33} \oplus k_{45}k_{33} \oplus k_{44}k_{33} \oplus k_{35}k_{33} \oplus k_{32} \oplus$$

$$k_{74}k_{71}k_{32} \oplus k_{73}k_{72}k_{71}k_{32} \oplus k_{74}k_{70}k_{69}k_{32} \oplus k_{73}k_{72}k_{70}k_{69}k_{32} \oplus k_{74}k_{59}k_{32} \oplus$$

$$k_{73}k_{72}k_{59}k_{32} \oplus k_{58}k_{32} \oplus k_{74}k_{58}k_{32} \oplus k_{73}k_{72}k_{58}k_{32} \oplus k_{74}k_{58}k_{57}k_{32} \oplus$$

$$k_{73}k_{72}k_{58}k_{57}k_{32} \oplus k_{71}k_{47}k_{32} \oplus k_{70}k_{69}k_{47}k_{32} \oplus k_{59}k_{47}k_{32} \oplus k_{58}k_{47}k_{32} \oplus$$

$$k_{58}k_{57}k_{47}k_{32} \oplus k_{74}k_{44}k_{32} \oplus k_{73}k_{72}k_{44}k_{32} \oplus k_{47}k_{44}k_{32} \oplus k_{44}k_{33}k_{32} \oplus k_{31} \oplus$$

$$k_{63}k_{50}k_{31} \oplus k_{62}k_{61}k_{50}k_{31} \oplus k_{63}k_{49}k_{48}k_{31} \oplus k_{62}k_{61}k_{49}k_{48}k_{31} \oplus k_{50}k_{36}k_{31} \oplus$$

$$k_{49}k_{48}k_{36}k_{31} \oplus k_{32}k_{31} \oplus k_{75}k_{32}k_{31} \oplus k_{74}k_{73}k_{32}k_{31} \oplus k_{68}k_{32}k_{31} \oplus$$

$$k_{62}k_{32}k_{31} \oplus k_{60}k_{32}k_{31} \oplus k_{68}k_{60}k_{32}k_{31} \oplus k_{61}k_{60}k_{32}k_{31} \oplus k_{48}k_{32}k_{31} \oplus$$

$$k_{35}k_{32}k_{31} \oplus k_{60}k_{30} \oplus k_{31}k_{30} \oplus k_{63}k_{50}k_{30}k_{29} \oplus k_{62}k_{61}k_{50}k_{30}k_{29} \oplus$$

$$k_{63}k_{49}k_{48}k_{30}k_{29} \oplus k_{62}k_{61}k_{49}k_{48}k_{30}k_{29} \oplus k_{50}k_{36}k_{30}k_{29} \oplus k_{49}k_{48}k_{36}k_{30}k_{29} \oplus$$

$$k_{74}k_{27} \oplus k_{73}k_{72}k_{27} \oplus k_{47}k_{27} \oplus k_{26} \oplus k_{74}k_{26} \oplus k_{73}k_{72}k_{26} \oplus k_{71}k_{26} \oplus$$

$$k_{74}k_{71}k_{26} \oplus k_{73}k_{72}k_{71}k_{26} \oplus k_{70}k_{69}k_{26} \oplus k_{74}k_{70}k_{69}k_{26} \oplus k_{73}k_{72}k_{70}k_{69}k_{26} \oplus$$

$$k_{59}k_{26} \oplus k_{74}k_{59}k_{26} \oplus k_{73}k_{72}k_{59}k_{26} \oplus k_{58}k_{26} \oplus k_{74}k_{58}k_{26} \oplus k_{73}k_{72}k_{58}k_{26} \oplus$$

$$k_{58}k_{57}k_{26} \oplus k_{74}k_{58}k_{57}k_{26} \oplus k_{73}k_{72}k_{58}k_{57}k_{26} \oplus k_{47}k_{26} \oplus k_{71}k_{47}k_{26} \oplus$$

$$k_{70}k_{69}k_{47}k_{26} \oplus k_{59}k_{47}k_{26} \oplus k_{58}k_{47}k_{26} \oplus k_{58}k_{57}k_{47}k_{26} \oplus k_{44}k_{26} \oplus$$

$$k_{74}k_{44}k_{26} \oplus k_{73}k_{72}k_{44}k_{26} \oplus k_{47}k_{44}k_{26} \oplus k_{74}k_{25} \oplus k_{73}k_{72}k_{25} \oplus k_{47}k_{25} \oplus$$

$$k_{44}k_{25} \oplus k_{74}k_{24} \oplus k_{73}k_{72}k_{24} \oplus k_{61}k_{24} \oplus k_{60}k_{59}k_{24} \oplus k_{74}k_{50}k_{24} \oplus$$

$$k_{73}k_{72}k_{50}k_{24} \oplus k_{74}k_{49}k_{48}k_{24} \oplus k_{73}k_{72}k_{49}k_{48}k_{24} \oplus k_{47}k_{24} \oplus k_{50}k_{47}k_{24} \oplus$$

$$k_{49}k_{48}k_{47}k_{24} \oplus k_{44}k_{24} \oplus k_{34}k_{24} \oplus k_{76}k_{23} \oplus k_{75}k_{23} \oplus k_{74}k_{23} \oplus k_{75}k_{74}k_{23} \oplus$$

$$k_{73}k_{23} \oplus k_{74}k_{73}k_{23} \oplus k_{73}k_{72}k_{23} \oplus k_{72}k_{71}k_{23} \oplus k_{74}k_{64}k_{23} \oplus k_{73}k_{72}k_{64}k_{23} \oplus$$

$$k_{62}k_{23} \oplus k_{74}k_{63}k_{62}k_{23} \oplus k_{73}k_{72}k_{63}k_{62}k_{23} \oplus k_{61}k_{23} \oplus k_{62}k_{61}k_{23} \oplus$$

$$k_{61}k_{60}k_{23} \oplus k_{60}k_{59}k_{23} \oplus k_{62}k_{60}k_{59}k_{23} \oplus k_{61}k_{60}k_{59}k_{23} \oplus k_{74}k_{51}k_{23} \oplus$$

$$k_{73}k_{72}k_{51}k_{23} \oplus k_{49}k_{23} \oplus k_{61}k_{49}k_{23} \oplus k_{60}k_{59}k_{49}k_{23} \oplus k_{74}k_{50}k_{49}k_{23} \oplus$$

$$k_{73}k_{72}k_{50}k_{49}k_{23} \oplus k_{47}k_{23} \oplus k_{64}k_{47}k_{23} \oplus k_{63}k_{62}k_{47}k_{23} \oplus k_{51}k_{47}k_{23} \oplus$$

$$k_{50}k_{49}k_{47}k_{23} \oplus k_{61}k_{48}k_{47}k_{23} \oplus k_{60}k_{59}k_{48}k_{47}k_{23} \oplus k_{46}k_{23} \oplus k_{47}k_{46}k_{23} \oplus$$

$$k_{44}k_{23} \oplus k_{74}k_{37}k_{23} \oplus k_{73}k_{72}k_{37}k_{23} \oplus k_{47}k_{37}k_{23} \oplus k_{61}k_{35}k_{23} \oplus$$

$$k_{60}k_{59}k_{35}k_{23} \oplus k_{34}k_{23} \oplus k_{62}k_{34}k_{23} \oplus k_{61}k_{60}k_{34}k_{23} \oplus k_{49}k_{34}k_{23} \oplus$$

$k_{48}k_{47}k_{34}k_{23} \oplus k_{35}k_{34}k_{23} \oplus k_{63}k_{31}k_{23} \oplus k_{62}k_{61}k_{31}k_{23} \oplus k_{36}k_{31}k_{23}\oplus$

$k_{63}k_{30}k_{29}k_{23} \oplus k_{62}k_{61}k_{30}k_{29}k_{23} \oplus k_{36}k_{30}k_{29}k_{23} \oplus k_{24}k_{23} \oplus k_{74}k_{24}k_{23}\oplus$

$k_{73}k_{72}k_{24}k_{23} \oplus k_{47}k_{24}k_{23} \oplus k_{75}k_{22} \oplus k_{74}k_{73}k_{22} \oplus k_{61}k_{50}k_{22}\oplus$

$k_{60}k_{59}k_{50}k_{22} \oplus k_{48}k_{22} \oplus k_{61}k_{49}k_{48}k_{22} \oplus k_{60}k_{59}k_{49}k_{48}k_{22} \oplus k_{50}k_{34}k_{22}\oplus$

$k_{49}k_{48}k_{34}k_{22} \oplus k_{61}k_{23}k_{22} \oplus k_{60}k_{59}k_{23}k_{22} \oplus k_{34}k_{23}k_{22} \oplus k_{73}k_{21} \oplus k_{72}k_{21}\oplus$

$k_{79}k_{78}k_{71}k_{21} \oplus k_{79}k_{78}k_{74}k_{71}k_{21} \oplus k_{73}k_{71}k_{21} \oplus k_{79}k_{78}k_{73}k_{72}k_{71}k_{21}\oplus$

$k_{71}k_{70}k_{21} \oplus k_{79}k_{78}k_{70}k_{69}k_{21} \oplus k_{79}k_{78}k_{74}k_{70}k_{69}k_{21} \oplus k_{73}k_{70}k_{69}k_{21}\oplus$

$k_{79}k_{78}k_{73}k_{72}k_{70}k_{69}k_{21} \oplus k_{72}k_{71}k_{70}k_{69}k_{21} \oplus k_{79}k_{78}k_{59}k_{21}\oplus$

$k_{79}k_{78}k_{74}k_{59}k_{21} \oplus k_{73}k_{59}k_{21} \oplus k_{79}k_{78}k_{73}k_{72}k_{59}k_{21} \oplus k_{72}k_{71}k_{59}k_{21}\oplus$

$k_{58}k_{21} \oplus k_{79}k_{78}k_{58}k_{21} \oplus k_{79}k_{78}k_{74}k_{58}k_{21} \oplus k_{73}k_{58}k_{21} \oplus k_{72}k_{58}k_{21}\oplus$

$k_{79}k_{78}k_{73}k_{72}k_{58}k_{21} \oplus k_{72}k_{71}k_{58}k_{21} \oplus k_{71}k_{70}k_{58}k_{21} \oplus k_{79}k_{78}k_{58}k_{57}k_{21}\oplus$

$k_{79}k_{78}k_{74}k_{58}k_{57}k_{21} \oplus k_{73}k_{58}k_{57}k_{21} \oplus k_{79}k_{78}k_{73}k_{72}k_{58}k_{57}k_{21}\oplus$

$k_{72}k_{71}k_{58}k_{57}k_{21} \oplus k_{74}k_{54}k_{21} \oplus k_{73}k_{72}k_{54}k_{21} \oplus k_{71}k_{54}k_{21} \oplus k_{70}k_{69}k_{54}k_{21}\oplus$

$k_{59}k_{54}k_{21} \oplus k_{58}k_{54}k_{21} \oplus k_{58}k_{57}k_{54}k_{21} \oplus k_{71}k_{53}k_{21} \oplus k_{74}k_{71}k_{53}k_{21}\oplus$

$k_{73}k_{72}k_{71}k_{53}k_{21} \oplus k_{70}k_{69}k_{53}k_{21} \oplus k_{74}k_{70}k_{69}k_{53}k_{21} \oplus k_{73}k_{72}k_{70}k_{69}k_{53}k_{21}\oplus$

$k_{59}k_{53}k_{21} \oplus k_{74}k_{59}k_{53}k_{21} \oplus k_{73}k_{72}k_{59}k_{53}k_{21} \oplus k_{58}k_{53}k_{21} \oplus k_{74}k_{58}k_{53}k_{21}\oplus$

$k_{73}k_{72}k_{58}k_{53}k_{21} \oplus k_{58}k_{57}k_{53}k_{21} \oplus k_{74}k_{58}k_{57}k_{53}k_{21} \oplus k_{73}k_{72}k_{58}k_{57}k_{53}k_{21}\oplus$

$k_{50}k_{21} \oplus k_{49}k_{48}k_{21} \oplus k_{79}k_{78}k_{71}k_{47}k_{21} \oplus k_{79}k_{78}k_{70}k_{69}k_{47}k_{21}\oplus$

$k_{79}k_{78}k_{59}k_{47}k_{21} \oplus k_{79}k_{78}k_{58}k_{47}k_{21} \oplus k_{79}k_{78}k_{58}k_{57}k_{47}k_{21} \oplus k_{54}k_{47}k_{21}\oplus$

$k_{71}k_{53}k_{47}k_{21} \oplus k_{70}k_{69}k_{53}k_{47}k_{21} \oplus k_{59}k_{53}k_{47}k_{21} \oplus k_{58}k_{53}k_{47}k_{21}\oplus$

$k_{58}k_{57}k_{53}k_{47}k_{21} \oplus k_{46}k_{21} \oplus k_{71}k_{46}k_{21} \oplus k_{70}k_{69}k_{46}k_{21} \oplus k_{59}k_{46}k_{21}\oplus$

$k_{58}k_{46}k_{21} \oplus k_{58}k_{57}k_{46}k_{21} \oplus k_{45}k_{21} \oplus k_{58}k_{45}k_{21} \oplus k_{79}k_{78}k_{44}k_{21}\oplus$

$k_{79}k_{78}k_{74}k_{44}k_{21} \oplus k_{73}k_{44}k_{21} \oplus k_{79}k_{78}k_{73}k_{72}k_{44}k_{21} \oplus k_{72}k_{71}k_{44}k_{21}\oplus$

$k_{54}k_{44}k_{21} \oplus k_{53}k_{44}k_{21} \oplus k_{74}k_{53}k_{44}k_{21} \oplus k_{73}k_{72}k_{53}k_{44}k_{21}\oplus$

$k_{79}k_{78}k_{47}k_{44}k_{21} \oplus k_{53}k_{47}k_{44}k_{21} \oplus k_{46}k_{44}k_{21} \oplus k_{23}k_{21} \oplus k_{21}k_{20} \oplus k_{18}\oplus$

$k_{76}k_{17} \oplus k_{75}k_{74}k_{17} \oplus k_{74}k_{71}k_{17} \oplus k_{73}k_{72}k_{71}k_{17} \oplus k_{74}k_{70}k_{69}k_{17}\oplus$

$k_{73}k_{72}k_{70}k_{69}k_{17} \oplus k_{71}k_{62}k_{17} \oplus k_{74}k_{71}k_{62}k_{17} \oplus k_{73}k_{72}k_{71}k_{62}k_{17}\oplus$

$k_{70}k_{69}k_{62}k_{17} \oplus k_{74}k_{70}k_{69}k_{62}k_{17} \oplus k_{73}k_{72}k_{70}k_{69}k_{62}k_{17} \oplus k_{61}k_{17}\oplus$

$k_{71}k_{61}k_{17} \oplus k_{70}k_{69}k_{61}k_{17} \oplus k_{60}k_{17} \oplus k_{71}k_{61}k_{60}k_{17} \oplus k_{74}k_{71}k_{61}k_{60}k_{17}\oplus$

$k_{73}k_{72}k_{71}k_{61}k_{60}k_{17} \oplus k_{70}k_{69}k_{61}k_{60}k_{17} \oplus k_{74}k_{70}k_{69}k_{61}k_{60}k_{17}\oplus$

$k_{73}k_{72}k_{70}k_{69}k_{61}k_{60}k_{17} \oplus k_{74}k_{59}k_{17} \oplus k_{73}k_{72}k_{59}k_{17} \oplus k_{62}k_{59}k_{17}\oplus$

$k_{74}k_{62}k_{59}k_{17} \oplus k_{73}k_{72}k_{62}k_{59}k_{17} \oplus k_{61}k_{59}k_{17} \oplus k_{71}k_{60}k_{59}k_{17}\oplus$

$k_{70}k_{69}k_{60}k_{59}k_{17} \oplus k_{61}k_{60}k_{59}k_{17} \oplus k_{74}k_{61}k_{60}k_{59}k_{17} \oplus k_{73}k_{72}k_{61}k_{60}k_{59}k_{17}\oplus$

$k_{58}k_{17} \oplus k_{74}k_{58}k_{17} \oplus k_{73}k_{72}k_{58}k_{17} \oplus k_{62}k_{58}k_{17} \oplus k_{74}k_{62}k_{58}k_{17}\oplus$

$k_{73}k_{72}k_{62}k_{58}k_{17} \oplus k_{61}k_{58}k_{17} \oplus k_{61}k_{60}k_{58}k_{17} \oplus k_{74}k_{61}k_{60}k_{58}k_{17}\oplus$

$k_{73}k_{72}k_{61}k_{60}k_{58}k_{17} \oplus k_{60}k_{59}k_{58}k_{17} \oplus k_{60}k_{57}k_{17} \oplus k_{74}k_{58}k_{57}k_{17}\oplus$

$$k_{73}k_{72}k_{58}k_{57}k_{17} \oplus k_{62}k_{58}k_{57}k_{17} \oplus k_{74}k_{62}k_{58}k_{57}k_{17} \oplus k_{73}k_{72}k_{62}k_{58}k_{57}k_{17} \oplus$$

$$k_{61}k_{58}k_{57}k_{17} \oplus k_{61}k_{60}k_{58}k_{57}k_{17} \oplus k_{74}k_{61}k_{60}k_{58}k_{57}k_{17} \oplus$$

$$k_{73}k_{72}k_{61}k_{60}k_{58}k_{57}k_{17} \oplus k_{60}k_{59}k_{58}k_{57}k_{17} \oplus k_{58}k_{56}k_{17} \oplus k_{49}k_{17} \oplus$$

$$k_{56}k_{48}k_{17} \oplus k_{71}k_{47}k_{17} \oplus k_{70}k_{69}k_{47}k_{17} \oplus k_{71}k_{62}k_{47}k_{17} \oplus k_{70}k_{69}k_{62}k_{47}k_{17} \oplus$$

$$k_{71}k_{61}k_{60}k_{47}k_{17} \oplus k_{70}k_{69}k_{61}k_{60}k_{47}k_{17} \oplus k_{59}k_{47}k_{17} \oplus k_{62}k_{59}k_{47}k_{17} \oplus$$

$$k_{61}k_{60}k_{59}k_{47}k_{17} \oplus k_{58}k_{47}k_{17} \oplus k_{62}k_{58}k_{47}k_{17} \oplus k_{61}k_{60}k_{58}k_{47}k_{17} \oplus$$

$$k_{58}k_{57}k_{47}k_{17} \oplus k_{62}k_{58}k_{57}k_{47}k_{17} \oplus k_{61}k_{60}k_{58}k_{57}k_{47}k_{17} \oplus k_{74}k_{44}k_{17} \oplus$$

$$k_{73}k_{72}k_{44}k_{17} \oplus k_{62}k_{44}k_{17} \oplus k_{74}k_{62}k_{44}k_{17} \oplus k_{73}k_{72}k_{62}k_{44}k_{17} \oplus k_{61}k_{44}k_{17} \oplus$$

$$k_{61}k_{60}k_{44}k_{17} \oplus k_{74}k_{61}k_{60}k_{44}k_{17} \oplus k_{73}k_{72}k_{61}k_{60}k_{44}k_{17} \oplus k_{60}k_{59}k_{44}k_{17} \oplus$$

$$k_{47}k_{44}k_{17} \oplus k_{62}k_{47}k_{44}k_{17} \oplus k_{61}k_{60}k_{47}k_{44}k_{17} \oplus k_{71}k_{35}k_{17} \oplus k_{74}k_{71}k_{35}k_{17} \oplus$$

$$k_{73}k_{72}k_{71}k_{35}k_{17} \oplus k_{70}k_{69}k_{35}k_{17} \oplus k_{74}k_{70}k_{69}k_{35}k_{17} \oplus k_{73}k_{72}k_{70}k_{69}k_{35}k_{17} \oplus$$

$$k_{59}k_{35}k_{17} \oplus k_{74}k_{59}k_{35}k_{17} \oplus k_{73}k_{72}k_{59}k_{35}k_{17} \oplus k_{58}k_{35}k_{17} \oplus k_{74}k_{58}k_{35}k_{17} \oplus$$

$$k_{73}k_{72}k_{58}k_{35}k_{17} \oplus k_{58}k_{57}k_{35}k_{17} \oplus k_{74}k_{58}k_{57}k_{35}k_{17} \oplus k_{73}k_{72}k_{58}k_{57}k_{35}k_{17} \oplus$$

$$k_{71}k_{47}k_{35}k_{17} \oplus k_{70}k_{69}k_{47}k_{35}k_{17} \oplus k_{59}k_{47}k_{35}k_{17} \oplus k_{58}k_{47}k_{35}k_{17} \oplus$$

$$k_{58}k_{57}k_{47}k_{35}k_{17} \oplus k_{44}k_{35}k_{17} \oplus k_{74}k_{44}k_{35}k_{17} \oplus k_{73}k_{72}k_{44}k_{35}k_{17} \oplus$$

$$k_{47}k_{44}k_{35}k_{17} \oplus k_{34}k_{17} \oplus k_{71}k_{34}k_{17} \oplus k_{70}k_{69}k_{34}k_{17} \oplus k_{59}k_{34}k_{17} \oplus$$

$$k_{58}k_{34}k_{17} \oplus k_{58}k_{57}k_{34}k_{17} \oplus k_{44}k_{34}k_{17} \oplus k_{79}k_{78}k_{16} \oplus k_{79}k_{78}k_{74}k_{16} \oplus$$

$$k_{79}k_{78}k_{73}k_{72}k_{16} \oplus k_{71}k_{16} \oplus k_{79}k_{78}k_{74}k_{71}k_{16} \oplus k_{79}k_{78}k_{73}k_{72}k_{71}k_{16} \oplus$$

$$k_{70}k_{69}k_{16} \oplus k_{79}k_{78}k_{74}k_{70}k_{69}k_{16} \oplus k_{79}k_{78}k_{73}k_{72}k_{70}k_{69}k_{16} \oplus k_{79}k_{78}k_{62}k_{16} \oplus$$

$$k_{71}k_{62}k_{16} \oplus k_{70}k_{69}k_{62}k_{16} \oplus k_{79}k_{78}k_{61}k_{16} \oplus k_{71}k_{61}k_{16} \oplus k_{70}k_{69}k_{61}k_{16} \oplus$$

$$k_{79}k_{78}k_{61}k_{60}k_{16} \oplus k_{71}k_{61}k_{60}k_{16} \oplus k_{70}k_{69}k_{61}k_{60}k_{16} \oplus k_{59}k_{16} \oplus$$

$$k_{79}k_{78}k_{74}k_{59}k_{16} \oplus k_{79}k_{78}k_{73}k_{72}k_{59}k_{16} \oplus k_{62}k_{59}k_{16} \oplus k_{61}k_{59}k_{16} \oplus$$

$$k_{60}k_{59}k_{16} \oplus k_{79}k_{78}k_{60}k_{59}k_{16} \oplus k_{71}k_{60}k_{59}k_{16} \oplus k_{70}k_{69}k_{60}k_{59}k_{16} \oplus$$

$$k_{61}k_{60}k_{59}k_{16} \oplus k_{79}k_{78}k_{74}k_{58}k_{16} \oplus k_{79}k_{78}k_{73}k_{72}k_{58}k_{16} \oplus k_{58}k_{57}k_{16} \oplus$$

$$k_{79}k_{78}k_{74}k_{58}k_{57}k_{16} \oplus k_{79}k_{78}k_{73}k_{72}k_{58}k_{57}k_{16} \oplus k_{62}k_{58}k_{57}k_{16} \oplus$$

$$k_{61}k_{58}k_{57}k_{16} \oplus k_{61}k_{60}k_{58}k_{57}k_{16} \oplus k_{60}k_{59}k_{58}k_{57}k_{16} \oplus k_{53}k_{16} \oplus k_{74}k_{53}k_{16} \oplus$$

$$k_{73}k_{72}k_{53}k_{16} \oplus k_{74}k_{71}k_{53}k_{16} \oplus k_{73}k_{72}k_{71}k_{53}k_{16} \oplus k_{74}k_{70}k_{69}k_{53}k_{16} \oplus$$

$$k_{73}k_{72}k_{70}k_{69}k_{53}k_{16} \oplus k_{62}k_{53}k_{16} \oplus k_{61}k_{53}k_{16} \oplus k_{61}k_{60}k_{53}k_{16} \oplus$$

$$k_{74}k_{59}k_{53}k_{16} \oplus k_{73}k_{72}k_{59}k_{53}k_{16} \oplus k_{60}k_{59}k_{53}k_{16} \oplus k_{74}k_{58}k_{53}k_{16} \oplus$$

$$k_{73}k_{72}k_{58}k_{53}k_{16} \oplus k_{74}k_{58}k_{57}k_{53}k_{16} \oplus k_{73}k_{72}k_{58}k_{57}k_{53}k_{16} \oplus k_{52}k_{16} \oplus$$

$$k_{51}k_{16} \oplus k_{50}k_{16} \oplus k_{51}k_{50}k_{16} \oplus k_{50}k_{49}k_{16} \oplus k_{49}k_{48}k_{16} \oplus k_{79}k_{78}k_{47}k_{16} \oplus$$

$$k_{79}k_{78}k_{71}k_{47}k_{16} \oplus k_{79}k_{78}k_{70}k_{69}k_{47}k_{16} \oplus k_{79}k_{78}k_{59}k_{47}k_{16} \oplus$$

$$k_{79}k_{78}k_{58}k_{47}k_{16} \oplus k_{79}k_{78}k_{58}k_{57}k_{47}k_{16} \oplus k_{53}k_{47}k_{16} \oplus k_{71}k_{53}k_{47}k_{16} \oplus$$

$$k_{70}k_{69}k_{53}k_{47}k_{16} \oplus k_{59}k_{53}k_{47}k_{16} \oplus k_{58}k_{53}k_{47}k_{16} \oplus k_{58}k_{57}k_{53}k_{47}k_{16} \oplus$$

$$k_{79}k_{78}k_{74}k_{44}k_{16} \oplus k_{79}k_{78}k_{73}k_{72}k_{44}k_{16} \oplus k_{62}k_{44}k_{16} \oplus k_{61}k_{44}k_{16} \oplus$$

$$k_{61}k_{60}k_{44}k_{16} \oplus k_{60}k_{59}k_{44}k_{16} \oplus k_{74}k_{53}k_{44}k_{16} \oplus k_{73}k_{72}k_{53}k_{44}k_{16} \oplus$$

$k_{79}k_{78}k_{47}k_{44}k_{16} \oplus k_{53}k_{47}k_{44}k_{16} \oplus k_{37}k_{16} \oplus k_{79}k_{78}k_{35}k_{16} \oplus k_{71}k_{35}k_{16} \oplus$

$k_{70}k_{69}k_{35}k_{16} \oplus k_{59}k_{35}k_{16} \oplus k_{58}k_{57}k_{35}k_{16} \oplus k_{53}k_{35}k_{16} \oplus k_{44}k_{35}k_{16} \oplus$

$k_{36}k_{35}k_{16} \oplus k_{79}k_{78}k_{34}k_{16} \oplus k_{71}k_{34}k_{16} \oplus k_{70}k_{69}k_{34}k_{16} \oplus k_{59}k_{34}k_{16} \oplus$

$k_{58}k_{57}k_{34}k_{16} \oplus k_{53}k_{34}k_{16} \oplus k_{44}k_{34}k_{16} \oplus k_{25}k_{16} \oplus k_{24}k_{16} \oplus k_{23}k_{16} \oplus k_{15} \oplus$

$k_{72}k_{15} \oplus k_{71}k_{70}k_{15} \oplus k_{59}k_{15} \oplus k_{79}k_{78}k_{58}k_{15} \oplus k_{58}k_{57}k_{15} \oplus k_{58}k_{53}k_{15} \oplus$

$k_{45}k_{15} \oplus k_{32}k_{15} \oplus k_{72}k_{14} \oplus k_{71}k_{14} \oplus k_{74}k_{71}k_{14} \oplus k_{73}k_{72}k_{71}k_{14} \oplus$

$k_{71}k_{70}k_{14} \oplus k_{70}k_{69}k_{14} \oplus k_{74}k_{70}k_{69}k_{14} \oplus k_{73}k_{72}k_{70}k_{69}k_{14} \oplus k_{62}k_{14} \oplus$

$k_{59}k_{14} \oplus k_{74}k_{59}k_{14} \oplus k_{73}k_{72}k_{59}k_{14} \oplus k_{58}k_{14} \oplus k_{74}k_{58}k_{14} \oplus k_{73}k_{72}k_{58}k_{14} \oplus$

$k_{58}k_{57}k_{14} \oplus k_{74}k_{58}k_{57}k_{14} \oplus k_{73}k_{72}k_{58}k_{57}k_{14} \oplus k_{74}k_{54}k_{14} \oplus k_{73}k_{72}k_{54}k_{14} \oplus$

$k_{71}k_{54}k_{14} \oplus k_{70}k_{69}k_{54}k_{14} \oplus k_{59}k_{54}k_{14} \oplus k_{58}k_{54}k_{14} \oplus k_{58}k_{57}k_{54}k_{14} \oplus$

$k_{71}k_{47}k_{14} \oplus k_{70}k_{69}k_{47}k_{14} \oplus k_{59}k_{47}k_{14} \oplus k_{58}k_{47}k_{14} \oplus k_{58}k_{57}k_{47}k_{14} \oplus$

$k_{54}k_{47}k_{14} \oplus k_{45}k_{14} \oplus k_{44}k_{14} \oplus k_{74}k_{44}k_{14} \oplus k_{73}k_{72}k_{44}k_{14} \oplus k_{54}k_{44}k_{14} \oplus$

$k_{47}k_{44}k_{14} \oplus k_{74}k_{10} \oplus k_{73}k_{72}k_{10} \oplus k_{47}k_{10} \oplus k_{60}k_{44}k_{10} \oplus k_{60}k_{43}k_{42}k_{10} \oplus$

$k_{60}k_{17}k_{10} \oplus k_{16}k_{10} \oplus k_9 \oplus k_{73}k_9 \oplus k_{72}k_{71}k_9 \oplus k_{61}k_9 \oplus k_{60}k_{59}k_9 \oplus k_{57}k_9 \oplus$

$k_{46}k_9 \oplus k_{60}k_{57}k_{44}k_9 \oplus k_{60}k_{57}k_{43}k_{42}k_9 \oplus k_{34}k_9 \oplus k_{60}k_{57}k_{17}k_9 \oplus k_{79}k_{78}k_8 \oplus$

$k_{71}k_8 \oplus k_{70}k_{69}k_8 \oplus k_{63}k_8 \oplus k_{79}k_{78}k_{63}k_8 \oplus k_{71}k_{63}k_8 \oplus k_{70}k_{69}k_{63}k_8 \oplus$

$k_{79}k_{78}k_{62}k_8 \oplus k_{74}k_{62}k_8 \oplus k_{79}k_{78}k_{74}k_{62}k_8 \oplus k_{73}k_{62}k_8 \oplus k_{73}k_{72}k_{62}k_8 \oplus$

$k_{79}k_{78}k_{73}k_{72}k_{62}k_8 \oplus k_{71}k_{62}k_8 \oplus k_{74}k_{71}k_{62}k_8 \oplus k_{72}k_{71}k_{62}k_8 \oplus$

$k_{73}k_{72}k_{71}k_{62}k_8 \oplus k_{70}k_{69}k_{62}k_8 \oplus k_{74}k_{70}k_{69}k_{62}k_8 \oplus k_{73}k_{72}k_{70}k_{69}k_{62}k_8 \oplus$

$k_{79}k_{78}k_{74}k_{61}k_8 \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_8 \oplus k_{74}k_{71}k_{61}k_8 \oplus k_{73}k_{72}k_{71}k_{61}k_8 \oplus$

$k_{74}k_{70}k_{69}k_{61}k_8 \oplus k_{73}k_{72}k_{70}k_{69}k_{61}k_8 \oplus k_{61}k_{60}k_8 \oplus k_{74}k_{61}k_{60}k_8 \oplus$

$k_{79}k_{78}k_{74}k_{61}k_{60}k_8 \oplus k_{73}k_{61}k_{60}k_8 \oplus k_{73}k_{72}k_{61}k_{60}k_8 \oplus$

$k_{79}k_{78}k_{73}k_{72}k_{61}k_{60}k_8 \oplus k_{74}k_{71}k_{61}k_{60}k_8 \oplus k_{72}k_{71}k_{61}k_{60}k_8 \oplus$

$k_{73}k_{72}k_{71}k_{61}k_{60}k_8 \oplus k_{74}k_{70}k_{69}k_{61}k_{60}k_8 \oplus k_{73}k_{72}k_{70}k_{69}k_{61}k_{60}k_8 \oplus k_{59}k_8 \oplus$

$k_{63}k_{59}k_8 \oplus k_{62}k_{59}k_8 \oplus k_{74}k_{62}k_{59}k_8 \oplus k_{73}k_{72}k_{62}k_{59}k_8 \oplus k_{74}k_{61}k_{59}k_8 \oplus$

$k_{73}k_{72}k_{61}k_{59}k_8 \oplus k_{60}k_{59}k_8 \oplus k_{79}k_{78}k_{60}k_{59}k_8 \oplus k_{74}k_{60}k_{59}k_8 \oplus$

$k_{79}k_{78}k_{74}k_{60}k_{59}k_8 \oplus k_{73}k_{72}k_{60}k_{59}k_8 \oplus k_{79}k_{78}k_{73}k_{72}k_{60}k_{59}k_8 \oplus$

$k_{71}k_{60}k_{59}k_8 \oplus k_{74}k_{71}k_{60}k_{59}k_8 \oplus k_{73}k_{72}k_{71}k_{60}k_{59}k_8 \oplus k_{70}k_{69}k_{60}k_{59}k_8 \oplus$

$k_{74}k_{70}k_{69}k_{60}k_{59}k_8 \oplus k_{73}k_{72}k_{70}k_{69}k_{60}k_{59}k_8 \oplus k_{79}k_{78}k_{62}k_{60}k_{59}k_8 \oplus$

$k_{71}k_{62}k_{60}k_{59}k_8 \oplus k_{70}k_{69}k_{62}k_{60}k_{59}k_8 \oplus k_{79}k_{78}k_{61}k_{60}k_{59}k_8 \oplus$

$k_{74}k_{61}k_{60}k_{59}k_8 \oplus k_{73}k_{72}k_{61}k_{60}k_{59}k_8 \oplus k_{71}k_{61}k_{60}k_{59}k_8 \oplus$

$k_{70}k_{69}k_{61}k_{60}k_{59}k_8 \oplus k_{63}k_{58}k_8 \oplus k_{62}k_{58}k_8 \oplus k_{74}k_{62}k_{58}k_8 \oplus$

$k_{73}k_{72}k_{62}k_{58}k_8 \oplus k_{74}k_{61}k_{58}k_8 \oplus k_{73}k_{72}k_{61}k_{58}k_8 \oplus k_{74}k_{61}k_{60}k_{58}k_8 \oplus$

$k_{73}k_{72}k_{61}k_{60}k_{58}k_8 \oplus k_{60}k_{59}k_{58}k_8 \oplus k_{74}k_{60}k_{59}k_{58}k_8 \oplus k_{73}k_{72}k_{60}k_{59}k_{58}k_8 \oplus$

$k_{62}k_{60}k_{59}k_{58}k_8 \oplus k_{61}k_{60}k_{59}k_{58}k_8 \oplus k_{58}k_{57}k_8 \oplus k_{63}k_{58}k_{57}k_8 \oplus$

$k_{62}k_{58}k_{57}k_8 \oplus k_{74}k_{62}k_{58}k_{57}k_8 \oplus k_{73}k_{72}k_{62}k_{58}k_{57}k_8 \oplus k_{74}k_{61}k_{58}k_{57}k_8 \oplus$

$k_{73}k_{72}k_{61}k_{58}k_{57}k_8 \oplus k_{74}k_{61}k_{60}k_{58}k_{57}k_8 \oplus k_{73}k_{72}k_{61}k_{60}k_{58}k_{57}k_8\oplus$

$k_{60}k_{59}k_{58}k_{57}k_8 \oplus k_{74}k_{60}k_{59}k_{58}k_{57}k_8 \oplus k_{73}k_{72}k_{60}k_{59}k_{58}k_{57}k_8\oplus$

$k_{62}k_{60}k_{59}k_{58}k_{57}k_8 \oplus k_{61}k_{60}k_{59}k_{58}k_{57}k_8 \oplus k_{79}k_{78}k_{55}k_8 \oplus k_{71}k_{55}k_8\oplus$

$k_{70}k_{69}k_{55}k_8 \oplus k_{59}k_{55}k_8 \oplus k_{58}k_{55}k_8 \oplus k_{58}k_{57}k_{55}k_8 \oplus k_{53}k_8 \oplus k_{63}k_{53}k_8\oplus$

$k_{62}k_{53}k_8 \oplus k_{74}k_{62}k_{53}k_8 \oplus k_{73}k_{72}k_{62}k_{53}k_8 \oplus k_{74}k_{61}k_{53}k_8\oplus$

$k_{73}k_{72}k_{61}k_{53}k_8 \oplus k_{74}k_{61}k_{60}k_{53}k_8 \oplus k_{73}k_{72}k_{61}k_{60}k_{53}k_8 \oplus k_{60}k_{59}k_{53}k_8\oplus$

$k_{74}k_{60}k_{59}k_{53}k_8 \oplus k_{73}k_{72}k_{60}k_{59}k_{53}k_8 \oplus k_{62}k_{60}k_{59}k_{53}k_8 \oplus k_{61}k_{60}k_{59}k_{53}k_8\oplus$

$k_{55}k_{53}k_8 \oplus k_{48}k_8 \oplus k_{79}k_{78}k_{48}k_8 \oplus k_{71}k_{48}k_8 \oplus k_{70}k_{69}k_{48}k_8 \oplus k_{59}k_{48}k_8\oplus$

$k_{58}k_{48}k_8 \oplus k_{58}k_{57}k_{48}k_8 \oplus k_{53}k_{48}k_8 \oplus k_{62}k_{47}k_8 \oplus k_{79}k_{78}k_{62}k_{47}k_8\oplus$

$k_{71}k_{62}k_{47}k_8 \oplus k_{70}k_{69}k_{62}k_{47}k_8 \oplus k_{79}k_{78}k_{61}k_{47}k_8 \oplus k_{71}k_{61}k_{47}k_8\oplus$

$k_{70}k_{69}k_{61}k_{47}k_8 \oplus k_{61}k_{60}k_{47}k_8 \oplus k_{79}k_{78}k_{61}k_{60}k_{47}k_8 \oplus k_{71}k_{61}k_{60}k_{47}k_8\oplus$

$k_{70}k_{69}k_{61}k_{60}k_{47}k_8 \oplus k_{62}k_{59}k_{47}k_8 \oplus k_{61}k_{59}k_{47}k_8 \oplus k_{60}k_{59}k_{47}k_8\oplus$

$k_{79}k_{78}k_{60}k_{59}k_{47}k_8 \oplus k_{71}k_{60}k_{59}k_{47}k_8 \oplus k_{70}k_{69}k_{60}k_{59}k_{47}k_8\oplus$

$k_{61}k_{60}k_{59}k_{47}k_8 \oplus k_{62}k_{58}k_{47}k_8 \oplus k_{61}k_{58}k_{47}k_8 \oplus k_{61}k_{60}k_{58}k_{47}k_8\oplus$

$k_{60}k_{59}k_{58}k_{47}k_8 \oplus k_{62}k_{58}k_{57}k_{47}k_8 \oplus k_{61}k_{58}k_{57}k_{47}k_8 \oplus k_{61}k_{60}k_{58}k_{57}k_{47}k_8\oplus$

$k_{60}k_{59}k_{58}k_{57}k_{47}k_8 \oplus k_{62}k_{53}k_{47}k_8 \oplus k_{61}k_{53}k_{47}k_8 \oplus k_{61}k_{60}k_{53}k_{47}k_8\oplus$

$k_{60}k_{59}k_{53}k_{47}k_8 \oplus k_{62}k_{46}k_8 \oplus k_{61}k_{60}k_{46}k_8 \oplus k_{47}k_{46}k_8 \oplus k_{79}k_{78}k_{47}k_{46}k_8\oplus$

$k_{71}k_{47}k_{46}k_8 \oplus k_{70}k_{69}k_{47}k_{46}k_8 \oplus k_{59}k_{47}k_{46}k_8 \oplus k_{58}k_{47}k_{46}k_8\oplus$

$k_{58}k_{57}k_{47}k_{46}k_8 \oplus k_{53}k_{47}k_{46}k_8 \oplus k_{44}k_8 \oplus k_{63}k_{44}k_8 \oplus k_{62}k_{44}k_8\oplus$

$k_{74}k_{62}k_{44}k_8 \oplus k_{73}k_{72}k_{62}k_{44}k_8 \oplus k_{74}k_{61}k_{44}k_8 \oplus k_{73}k_{72}k_{61}k_{44}k_8\oplus$

$k_{74}k_{61}k_{60}k_{44}k_8 \oplus k_{73}k_{72}k_{61}k_{60}k_{44}k_8 \oplus k_{60}k_{59}k_{44}k_8 \oplus k_{74}k_{60}k_{59}k_{44}k_8\oplus$

$k_{73}k_{72}k_{60}k_{59}k_{44}k_8 \oplus k_{62}k_{60}k_{59}k_{44}k_8 \oplus k_{61}k_{60}k_{59}k_{44}k_8 \oplus k_{55}k_{44}k_8\oplus$

$k_{48}k_{44}k_8 \oplus k_{62}k_{47}k_{44}k_8 \oplus k_{61}k_{47}k_{44}k_8 \oplus k_{61}k_{60}k_{47}k_{44}k_8\oplus$

$k_{60}k_{59}k_{47}k_{44}k_8 \oplus k_{47}k_{46}k_{44}k_8 \oplus k_{36}k_8 \oplus k_{79}k_{78}k_{36}k_8 \oplus k_{71}k_{36}k_8\oplus$

$k_{70}k_{69}k_{36}k_8 \oplus k_{59}k_{36}k_8 \oplus k_{58}k_{36}k_8 \oplus k_{58}k_{57}k_{36}k_8 \oplus k_{53}k_{36}k_8 \oplus k_{44}k_{36}k_8\oplus$

$k_{79}k_{78}k_{35}k_8 \oplus k_{74}k_{35}k_8 \oplus k_{79}k_{78}k_{74}k_{35}k_8 \oplus k_{73}k_{35}k_8 \oplus k_{73}k_{72}k_{35}k_8\oplus$

$k_{79}k_{78}k_{73}k_{72}k_{35}k_8 \oplus k_{71}k_{35}k_8 \oplus k_{74}k_{71}k_{35}k_8 \oplus k_{72}k_{71}k_{35}k_8\oplus$

$k_{73}k_{72}k_{71}k_{35}k_8 \oplus k_{70}k_{69}k_{35}k_8 \oplus k_{74}k_{70}k_{69}k_{35}k_8 \oplus k_{73}k_{72}k_{70}k_{69}k_{35}k_8\oplus$

$k_{61}k_{35}k_8 \oplus k_{79}k_{78}k_{61}k_{35}k_8 \oplus k_{71}k_{61}k_{35}k_8 \oplus k_{70}k_{69}k_{61}k_{35}k_8 \oplus k_{59}k_{35}k_8\oplus$

$k_{74}k_{59}k_{35}k_8 \oplus k_{73}k_{72}k_{59}k_{35}k_8 \oplus k_{61}k_{59}k_{35}k_8 \oplus k_{79}k_{78}k_{60}k_{59}k_{35}k_8\oplus$

$k_{71}k_{60}k_{59}k_{35}k_8 \oplus k_{70}k_{69}k_{60}k_{59}k_{35}k_8 \oplus k_{58}k_{35}k_8 \oplus k_{74}k_{58}k_{35}k_8\oplus$

$k_{73}k_{72}k_{58}k_{35}k_8 \oplus k_{61}k_{58}k_{35}k_8 \oplus k_{60}k_{59}k_{58}k_{35}k_8 \oplus k_{58}k_{57}k_{35}k_8\oplus$

$k_{74}k_{58}k_{57}k_{35}k_8 \oplus k_{73}k_{72}k_{58}k_{57}k_{35}k_8 \oplus k_{61}k_{58}k_{57}k_{35}k_8\oplus$

$k_{60}k_{59}k_{58}k_{57}k_{35}k_8 \oplus k_{53}k_{35}k_8 \oplus k_{74}k_{53}k_{35}k_8 \oplus k_{73}k_{72}k_{53}k_{35}k_8\oplus$

$k_{61}k_{53}k_{35}k_8 \oplus k_{60}k_{59}k_{53}k_{35}k_8 \oplus k_{47}k_{35}k_8 \oplus k_{79}k_{78}k_{47}k_{35}k_8\oplus$

$k_{71}k_{47}k_{35}k_8 \oplus k_{70}k_{69}k_{47}k_{35}k_8 \oplus k_{59}k_{47}k_{35}k_8 \oplus k_{58}k_{47}k_{35}k_8\oplus$

$k_{58}k_{57}k_{47}k_{35}k_8 \oplus k_{53}k_{47}k_{35}k_8 \oplus k_{46}k_{35}k_8 \oplus k_{44}k_{35}k_8 \oplus k_{74}k_{44}k_{35}k_8 \oplus$

$k_{73}k_{72}k_{44}k_{35}k_8 \oplus k_{61}k_{44}k_{35}k_8 \oplus k_{60}k_{59}k_{44}k_{35}k_8 \oplus k_{47}k_{44}k_{35}k_8 \oplus$

$k_{79}k_{78}k_{34}k_8 \oplus k_{79}k_{78}k_{74}k_{34}k_8 \oplus k_{79}k_{78}k_{73}k_{72}k_{34}k_8 \oplus k_{71}k_{34}k_8 \oplus$

$k_{74}k_{71}k_{34}k_8 \oplus k_{73}k_{72}k_{71}k_{34}k_8 \oplus k_{70}k_{69}k_{34}k_8 \oplus k_{74}k_{70}k_{69}k_{34}k_8 \oplus$

$k_{73}k_{72}k_{70}k_{69}k_{34}k_8 \oplus k_{62}k_{34}k_8 \oplus k_{79}k_{78}k_{62}k_{34}k_8 \oplus k_{71}k_{62}k_{34}k_8 \oplus$

$k_{70}k_{69}k_{62}k_{34}k_8 \oplus k_{61}k_{60}k_{34}k_8 \oplus k_{79}k_{78}k_{61}k_{60}k_{34}k_8 \oplus k_{71}k_{61}k_{60}k_{34}k_8 \oplus$

$k_{70}k_{69}k_{61}k_{60}k_{34}k_8 \oplus k_{59}k_{34}k_8 \oplus k_{74}k_{59}k_{34}k_8 \oplus k_{73}k_{72}k_{59}k_{34}k_8 \oplus$

$k_{62}k_{59}k_{34}k_8 \oplus k_{61}k_{60}k_{59}k_{34}k_8 \oplus k_{58}k_{34}k_8 \oplus k_{74}k_{58}k_{34}k_8 \oplus$

$k_{73}k_{72}k_{58}k_{34}k_8 \oplus k_{62}k_{58}k_{34}k_8 \oplus k_{61}k_{60}k_{58}k_{34}k_8 \oplus k_{58}k_{57}k_{34}k_8 \oplus$

$k_{74}k_{58}k_{57}k_{34}k_8 \oplus k_{73}k_{72}k_{58}k_{57}k_{34}k_8 \oplus k_{62}k_{58}k_{57}k_{34}k_8 \oplus$

$k_{61}k_{60}k_{58}k_{57}k_{34}k_8 \oplus k_{53}k_{34}k_8 \oplus k_{74}k_{53}k_{34}k_8 \oplus k_{73}k_{72}k_{53}k_{34}k_8 \oplus$

$k_{62}k_{53}k_{34}k_8 \oplus k_{61}k_{60}k_{53}k_{34}k_8 \oplus k_{79}k_{78}k_{47}k_{34}k_8 \oplus k_{71}k_{47}k_{34}k_8 \oplus$

$k_{70}k_{69}k_{47}k_{34}k_8 \oplus k_{59}k_{47}k_{34}k_8 \oplus k_{58}k_{47}k_{34}k_8 \oplus k_{58}k_{57}k_{47}k_{34}k_8 \oplus$

$k_{53}k_{47}k_{34}k_8 \oplus k_{44}k_{34}k_8 \oplus k_{74}k_{44}k_{34}k_8 \oplus k_{73}k_{72}k_{44}k_{34}k_8 \oplus k_{62}k_{44}k_{34}k_8 \oplus$

$k_{61}k_{60}k_{44}k_{34}k_8 \oplus k_{47}k_{44}k_{34}k_8 \oplus k_{35}k_{34}k_8 \oplus k_{79}k_{78}k_{35}k_{34}k_8 \oplus$

$k_{71}k_{35}k_{34}k_8 \oplus k_{70}k_{69}k_{35}k_{34}k_8 \oplus k_{59}k_{35}k_{34}k_8 \oplus k_{58}k_{35}k_{34}k_8 \oplus$

$k_{58}k_{57}k_{35}k_{34}k_8 \oplus k_{53}k_{35}k_{34}k_8 \oplus k_{44}k_{35}k_{34}k_8 \oplus k_{21}k_8 \oplus k_{79}k_{78}k_{21}k_8 \oplus$

$k_{71}k_{21}k_8 \oplus k_{70}k_{69}k_{21}k_8 \oplus k_{59}k_{21}k_8 \oplus k_{58}k_{21}k_8 \oplus k_{58}k_{57}k_{21}k_8 \oplus k_{53}k_{21}k_8 \oplus$

$k_{44}k_{21}k_8 \oplus k_{74}k_{17}k_8 \oplus k_{73}k_{72}k_{17}k_8 \oplus k_{61}k_{17}k_8 \oplus k_{60}k_{59}k_{17}k_8 \oplus k_{47}k_{17}k_8 \oplus$

$k_{34}k_{17}k_8 \oplus k_{79}k_{78}k_{16}k_8 \oplus k_{71}k_{16}k_8 \oplus k_{70}k_{69}k_{16}k_8 \oplus k_{59}k_{16}k_8 \oplus k_{58}k_{16}k_8 \oplus$

$k_{58}k_{57}k_{16}k_8 \oplus k_{53}k_{16}k_8 \oplus k_{44}k_{16}k_8 \oplus k_{14}k_8 \oplus k_7 \oplus k_{78}k_7 \oplus k_{76}k_7 \oplus$

$k_{77}k_{76}k_7 \oplus k_{74}k_7 \oplus k_{75}k_{74}k_7 \oplus k_{73}k_{72}k_7 \oplus k_{78}k_{63}k_7 \oplus k_{77}k_{76}k_{63}k_7 \oplus$

$k_{78}k_{62}k_{61}k_7 \oplus k_{77}k_{76}k_{62}k_{61}k_7 \oplus k_{51}k_7 \oplus k_{63}k_{51}k_7 \oplus k_{62}k_{61}k_{51}k_7 \oplus k_{49}k_7 \oplus$

$k_{47}k_7 \oplus k_{44}k_7 \oplus k_{78}k_{36}k_7 \oplus k_{77}k_{76}k_{36}k_7 \oplus k_{51}k_{36}k_7 \oplus k_{79}k_{78}k_6 \oplus k_{75}k_6 \oplus$

$k_{74}k_{73}k_6 \oplus k_{73}k_{71}k_6 \oplus k_{72}k_{71}k_6 \oplus k_{73}k_{70}k_{69}k_6 \oplus k_{72}k_{71}k_{70}k_{69}k_6 \oplus k_{68}k_6 \oplus$

$k_{62}k_6 \oplus k_{79}k_{78}k_{62}k_6 \oplus k_{71}k_{62}k_6 \oplus k_{70}k_{69}k_{62}k_6 \oplus k_{61}k_6 \oplus k_{79}k_{78}k_{61}k_6 \oplus$

$k_{71}k_{61}k_6 \oplus k_{70}k_{69}k_{61}k_6 \oplus k_{60}k_6 \oplus k_{68}k_{60}k_6 \oplus k_{61}k_{60}k_6 \oplus k_{79}k_{78}k_{61}k_{60}k_6 \oplus$

$k_{71}k_{61}k_{60}k_6 \oplus k_{70}k_{69}k_{61}k_{60}k_6 \oplus k_{73}k_{59}k_6 \oplus k_{72}k_{71}k_{59}k_6 \oplus k_{62}k_{59}k_6 \oplus$

$k_{61}k_{59}k_6 \oplus k_{79}k_{78}k_{60}k_{59}k_6 \oplus k_{71}k_{60}k_{59}k_6 \oplus k_{70}k_{69}k_{60}k_{59}k_6 \oplus$

$k_{61}k_{60}k_{59}k_6 \oplus k_{73}k_{58}k_6 \oplus k_{72}k_{71}k_{58}k_6 \oplus k_{62}k_{58}k_6 \oplus k_{61}k_{58}k_6 \oplus$

$k_{61}k_{60}k_{58}k_6 \oplus k_{60}k_{59}k_{58}k_6 \oplus k_{73}k_{58}k_{57}k_6 \oplus k_{72}k_{71}k_{58}k_{57}k_6 \oplus$

$k_{62}k_{58}k_{57}k_6 \oplus k_{61}k_{58}k_{57}k_6 \oplus k_{61}k_{60}k_{58}k_{57}k_6 \oplus k_{60}k_{59}k_{58}k_{57}k_6 \oplus k_{54}k_6 \oplus$

$k_{62}k_{54}k_6 \oplus k_{61}k_{54}k_6 \oplus k_{61}k_{60}k_{54}k_6 \oplus k_{60}k_{59}k_{54}k_6 \oplus k_{53}k_6 \oplus k_{62}k_{53}k_6 \oplus$

$k_{61}k_{53}k_6 \oplus k_{61}k_{60}k_{53}k_6 \oplus k_{60}k_{59}k_{53}k_6 \oplus k_{48}k_6 \oplus k_{71}k_{46}k_6 \oplus k_{70}k_{69}k_{46}k_6 \oplus$

$k_{59}k_{46}k_6 \oplus k_{58}k_{46}k_6 \oplus k_{58}k_{57}k_{46}k_6 \oplus k_{73}k_{44}k_6 \oplus k_{72}k_{71}k_{44}k_6 \oplus k_{62}k_{44}k_6 \oplus$

$k_{61}k_{44}k_6 \oplus k_{61}k_{60}k_{44}k_6 \oplus k_{60}k_{59}k_{44}k_6 \oplus k_{46}k_{44}k_6 \oplus k_{35}k_6 \oplus k_{79}k_{78}k_{35}k_6 \oplus$

$k_{71}k_{35}k_6 \oplus k_{70}k_{69}k_{35}k_6 \oplus k_{59}k_{35}k_6 \oplus k_{58}k_{35}k_6 \oplus k_{58}k_{57}k_{35}k_6 \oplus k_{54}k_{35}k_6 \oplus$

$k_{53}k_{35}k_6 \oplus k_{44}k_{35}k_6 \oplus k_{34}k_6 \oplus k_{79}k_{78}k_{34}k_6 \oplus k_{71}k_{34}k_6 \oplus k_{70}k_{69}k_{34}k_6 \oplus$

$k_{59}k_{34}k_6 \oplus k_{58}k_{34}k_6 \oplus k_{58}k_{57}k_{34}k_6 \oplus k_{54}k_{34}k_6 \oplus k_{53}k_{34}k_6 \oplus k_{44}k_{34}k_6 \oplus$

${\color{red}k_5} \oplus k_{63}k_{50}k_4 \oplus k_{62}k_{61}k_{50}k_4 \oplus k_{63}k_{49}k_{48}k_4 \oplus k_{62}k_{61}k_{49}k_{48}k_4 \oplus k_{50}k_{36}k_4 \oplus$

$k_{49}k_{48}k_{36}k_4 \oplus k_{63}k_{23}k_4 \oplus k_{62}k_{61}k_{23}k_4 \oplus k_{36}k_{23}k_4 \oplus k_{71}k_2 \oplus k_{70}k_{69}k_2 \oplus$

$k_{59}k_2 \oplus k_{58}k_2 \oplus k_{58}k_{57}k_2 \oplus k_{44}k_2$

2 Superpoly p_{I_7}

Taking the cube of dimension 77 as

$$I_7 = \{0, 1, \ldots, 71, 73, 74, 75, 77, 79\}, \quad IV[72] = IV[76] = IV[78] = 0,$$

we recover the superpoly p_{I_7} for 841-Round TRIVIUM that has 1400 terms, and we give it as the following

$p_{I_7} k_{79} \oplus k_{78} \oplus k_{79}k_{78} \oplus k_{77} \oplus k_{76} \oplus k_{79}k_{78}k_{76} \oplus k_{75} \oplus k_{77}k_{75} \oplus k_{78}k_{76}k_{75} \oplus$

$\quad k_{77}k_{76}k_{75} \oplus k_{74} \oplus k_{77}k_{74} \oplus k_{76}k_{74} \oplus k_{75}k_{74} \oplus k_{79}k_{78}k_{75}k_{74} \oplus k_{76}k_{75}k_{74} \oplus$

$\quad k_{73} \oplus k_{74}k_{73} \oplus k_{77}k_{74}k_{73} \oplus k_{76}k_{75}k_{74}k_{73} \oplus k_{72} \oplus k_{73}k_{72} \oplus k_{77}k_{73}k_{72} \oplus$

$\quad k_{76}k_{73}k_{72} \oplus k_{75}k_{73}k_{72} \oplus k_{76}k_{75}k_{73}k_{72} \oplus k_{74}k_{73}k_{72} \oplus k_{75}k_{74}k_{73}k_{72} \oplus k_{71} \oplus$

$\quad k_{79}k_{78}k_{71} \oplus k_{75}k_{71} \oplus k_{74}k_{71} \oplus k_{79}k_{78}k_{74}k_{71} \oplus k_{73}k_{71} \oplus k_{72}k_{71} \oplus$

$\quad k_{79}k_{78}k_{73}k_{72}k_{71} \oplus k_{71}k_{70} \oplus k_{73}k_{71}k_{70} \oplus k_{72}k_{71}k_{70} \oplus k_{69} \oplus k_{70}k_{69} \oplus$

$\quad k_{79}k_{78}k_{70}k_{69} \oplus k_{75}k_{70}k_{69} \oplus k_{74}k_{70}k_{69} \oplus k_{79}k_{78}k_{74}k_{70}k_{69} \oplus k_{73}k_{70}k_{69} \oplus$

$\quad k_{79}k_{78}k_{73}k_{72}k_{70}k_{69} \oplus k_{72}k_{71}k_{70}k_{69} \oplus k_{74}k_{72}k_{71}k_{70}k_{69} \oplus k_{73}k_{72}k_{71}k_{70}k_{69} \oplus$

$\quad k_{78}k_{68} \oplus k_{79}k_{78}k_{68} \oplus k_{76}k_{68} \oplus k_{77}k_{76}k_{68} \oplus k_{75}k_{74}k_{68} \oplus k_{71}k_{68} \oplus k_{70}k_{69}k_{68} \oplus$

$\quad k_{68}k_{67} \oplus k_{66} \oplus k_{68}k_{65} \oplus k_{67}k_{66}k_{65} \oplus k_{78}k_{64} \oplus k_{79}k_{78}k_{64} \oplus k_{77}k_{64} \oplus$

$\quad k_{77}k_{76}k_{64} \oplus k_{76}k_{75}k_{64} \oplus k_{74}k_{64} \oplus k_{73}k_{72}k_{64} \oplus k_{71}k_{64} \oplus k_{70}k_{69}k_{64} \oplus k_{65}k_{64} \oplus$

$\quad k_{71}k_{63} \oplus k_{70}k_{69}k_{63} \oplus k_{64}k_{63} \oplus k_{68}k_{64}k_{63} \oplus k_{67}k_{66}k_{64}k_{63} \oplus k_{79}k_{78}k_{62} \oplus$

$\quad k_{77}k_{62} \oplus k_{78}k_{77}k_{62} \oplus k_{77}k_{76}k_{62} \oplus k_{79}k_{77}k_{76}k_{62} \oplus k_{78}k_{77}k_{76}k_{62} \oplus$

$\quad k_{79}k_{78}k_{77}k_{76}k_{62} \oplus k_{75}k_{62} \oplus k_{77}k_{75}k_{74}k_{62} \oplus k_{76}k_{75}k_{74}k_{62} \oplus k_{74}k_{73}k_{62} \oplus$

$\quad k_{75}k_{71}k_{62} \oplus k_{73}k_{71}k_{62} \oplus k_{72}k_{71}k_{62} \oplus k_{74}k_{72}k_{71}k_{62} \oplus k_{75}k_{70}k_{69}k_{62} \oplus$

$\quad k_{73}k_{70}k_{69}k_{62} \oplus k_{73}k_{72}k_{70}k_{69}k_{62} \oplus k_{72}k_{71}k_{70}k_{69}k_{62} \oplus k_{74}k_{72}k_{71}k_{70}k_{69}k_{62} \oplus$

$\quad k_{73}k_{72}k_{71}k_{70}k_{69}k_{62} \oplus k_{66}k_{62} \oplus k_{64}k_{62} \oplus k_{65}k_{64}k_{62} \oplus k_{78}k_{63}k_{62} \oplus$

$\quad k_{79}k_{78}k_{63}k_{62} \oplus k_{77}k_{63}k_{62} \oplus k_{77}k_{76}k_{63}k_{62} \oplus k_{76}k_{75}k_{63}k_{62} \oplus k_{74}k_{63}k_{62} \oplus$

$\quad k_{73}k_{72}k_{63}k_{62} \oplus k_{71}k_{63}k_{62} \oplus k_{70}k_{69}k_{63}k_{62} \oplus k_{61} \oplus k_{75}k_{61} \oplus k_{74}k_{73}k_{61} \oplus$

$\quad k_{71}k_{61} \oplus k_{73}k_{71}k_{61} \oplus k_{72}k_{71}k_{61} \oplus k_{70}k_{69}k_{61} \oplus k_{73}k_{70}k_{69}k_{61} \oplus$

$\quad k_{72}k_{71}k_{70}k_{69}k_{61} \oplus k_{63}k_{61} \oplus k_{62}k_{61} \oplus k_{64}k_{62}k_{61} \oplus k_{63}k_{62}k_{61} \oplus k_{71}k_{60} \oplus$

$\quad k_{70}k_{69}k_{60} \oplus k_{71}k_{62}k_{60} \oplus k_{70}k_{69}k_{62}k_{60} \oplus k_{77}k_{61}k_{60} \oplus k_{75}k_{61}k_{60} \oplus$

$\quad k_{76}k_{75}k_{61}k_{60} \oplus k_{74}k_{73}k_{61}k_{60} \oplus k_{75}k_{71}k_{61}k_{60} \oplus k_{73}k_{71}k_{61}k_{60} \oplus k_{72}k_{71}k_{61}k_{60} \oplus$

$\quad k_{74}k_{72}k_{71}k_{61}k_{60} \oplus k_{75}k_{70}k_{69}k_{61}k_{60} \oplus k_{73}k_{70}k_{69}k_{61}k_{60} \oplus k_{73}k_{72}k_{70}k_{69}k_{61}k_{60} \oplus$

$\quad k_{72}k_{71}k_{70}k_{69}k_{61}k_{60} \oplus k_{74}k_{72}k_{71}k_{70}k_{69}k_{61}k_{60} \oplus k_{73}k_{72}k_{71}k_{70}k_{69}k_{61}k_{60} \oplus k_{59} \oplus$

$\quad k_{79}k_{78}k_{59} \oplus k_{75}k_{59} \oplus k_{74}k_{59} \oplus k_{79}k_{78}k_{74}k_{59} \oplus k_{79}k_{78}k_{73}k_{72}k_{59} \oplus$

$\quad k_{74}k_{72}k_{71}k_{59} \oplus k_{73}k_{72}k_{71}k_{59} \oplus k_{68}k_{59} \oplus k_{64}k_{59} \oplus k_{63}k_{59} \oplus k_{75}k_{62}k_{59} \oplus$

$\quad k_{73}k_{62}k_{59} \oplus k_{73}k_{72}k_{62}k_{59} \oplus k_{72}k_{71}k_{62}k_{59} \oplus k_{74}k_{72}k_{71}k_{62}k_{59} \oplus$

$\quad k_{73}k_{72}k_{71}k_{62}k_{59} \oplus k_{63}k_{62}k_{59} \oplus k_{61}k_{59} \oplus k_{73}k_{61}k_{59} \oplus k_{72}k_{71}k_{61}k_{59} \oplus k_{60}k_{59} \oplus$

$\quad k_{79}k_{78}k_{60}k_{59} \oplus k_{75}k_{60}k_{59} \oplus k_{73}k_{60}k_{59} \oplus k_{74}k_{73}k_{60}k_{59} \oplus k_{71}k_{60}k_{59} \oplus$

$$k_{73}k_{71}k_{60}k_{59} \oplus k_{70}k_{69}k_{60}k_{59} \oplus k_{73}k_{70}k_{69}k_{60}k_{59} \oplus k_{72}k_{71}k_{70}k_{69}k_{60}k_{59} \oplus$$

$$k_{62}k_{60}k_{59} \oplus k_{71}k_{62}k_{60}k_{59} \oplus k_{70}k_{69}k_{62}k_{60}k_{59} \oplus k_{75}k_{61}k_{60}k_{59} \oplus k_{73}k_{61}k_{60}k_{59} \oplus$$

$$k_{73}k_{72}k_{61}k_{60}k_{59} \oplus k_{71}k_{61}k_{60}k_{59} \oplus k_{72}k_{71}k_{61}k_{60}k_{59} \oplus k_{74}k_{72}k_{71}k_{61}k_{60}k_{59} \oplus$$

$$k_{73}k_{72}k_{71}k_{61}k_{60}k_{59} \oplus k_{70}k_{69}k_{61}k_{60}k_{59} \oplus k_{79}k_{78}k_{58} \oplus k_{79}k_{78}k_{76}k_{58} \oplus$$

$$k_{79}k_{78}k_{74}k_{58} \oplus k_{79}k_{78}k_{75}k_{74}k_{58} \oplus k_{74}k_{73}k_{58} \oplus k_{73}k_{72}k_{58} \oplus k_{79}k_{78}k_{73}k_{72}k_{58} \oplus$$

$$k_{74}k_{72}k_{71}k_{58} \oplus k_{73}k_{72}k_{71}k_{58} \oplus k_{64}k_{58} \oplus k_{77}k_{64}k_{58} \oplus k_{76}k_{75}k_{64}k_{58} \oplus$$

$$k_{74}k_{64}k_{58} \oplus k_{73}k_{72}k_{64}k_{58} \oplus k_{76}k_{62}k_{58} \oplus k_{75}k_{62}k_{58} \oplus k_{74}k_{62}k_{58} \oplus$$

$$k_{74}k_{73}k_{62}k_{58} \oplus k_{72}k_{62}k_{58} \oplus k_{75}k_{73}k_{72}k_{62}k_{58} \oplus k_{74}k_{73}k_{72}k_{62}k_{58} \oplus$$

$$k_{74}k_{72}k_{71}k_{62}k_{58} \oplus k_{73}k_{72}k_{71}k_{62}k_{58} \oplus k_{71}k_{70}k_{62}k_{58} \oplus k_{63}k_{62}k_{58} \oplus$$

$$k_{77}k_{63}k_{62}k_{58} \oplus k_{76}k_{75}k_{63}k_{62}k_{58} \oplus k_{74}k_{63}k_{62}k_{58} \oplus k_{73}k_{72}k_{63}k_{62}k_{58} \oplus$$

$$k_{72}k_{61}k_{58} \oplus k_{71}k_{70}k_{61}k_{58} \oplus k_{76}k_{61}k_{60}k_{58} \oplus k_{75}k_{61}k_{60}k_{58} \oplus k_{74}k_{61}k_{60}k_{58} \oplus$$

$$k_{74}k_{73}k_{61}k_{60}k_{58} \oplus k_{72}k_{61}k_{60}k_{58} \oplus k_{75}k_{73}k_{72}k_{61}k_{60}k_{58} \oplus k_{74}k_{73}k_{72}k_{61}k_{60}k_{58} \oplus$$

$$k_{74}k_{72}k_{71}k_{61}k_{60}k_{58} \oplus k_{73}k_{72}k_{71}k_{61}k_{60}k_{58} \oplus k_{71}k_{70}k_{61}k_{60}k_{58} \oplus k_{71}k_{59}k_{58} \oplus$$

$$k_{70}k_{69}k_{59}k_{58} \oplus k_{62}k_{59}k_{58} \oplus k_{71}k_{62}k_{59}k_{58} \oplus k_{70}k_{69}k_{62}k_{59}k_{58} \oplus k_{61}k_{59}k_{58} \oplus$$

$$k_{72}k_{60}k_{59}k_{58} \oplus k_{71}k_{70}k_{60}k_{59}k_{58} \oplus k_{61}k_{60}k_{59}k_{58} \oplus k_{71}k_{61}k_{60}k_{59}k_{58} \oplus$$

$$k_{70}k_{69}k_{61}k_{60}k_{59}k_{58} \oplus k_{57} \oplus k_{79}k_{78}k_{57} \oplus k_{74}k_{57} \oplus k_{79}k_{78}k_{74}k_{57} \oplus k_{73}k_{57} \oplus$$

$$k_{79}k_{78}k_{73}k_{57} \oplus k_{72}k_{57} \oplus k_{73}k_{72}k_{57} \oplus k_{79}k_{78}k_{73}k_{72}k_{57} \oplus k_{72}k_{71}k_{57} \oplus$$

$$k_{79}k_{78}k_{72}k_{71}k_{57} \oplus k_{71}k_{70}k_{57} \oplus k_{74}k_{68}k_{57} \oplus k_{73}k_{72}k_{68}k_{57} \oplus k_{67}k_{57} \oplus$$

$$k_{74}k_{67}k_{57} \oplus k_{73}k_{72}k_{67}k_{57} \oplus k_{64}k_{57} \oplus k_{67}k_{65}k_{64}k_{57} \oplus k_{74}k_{67}k_{65}k_{64}k_{57} \oplus$$

$$k_{73}k_{72}k_{67}k_{65}k_{64}k_{57} \oplus k_{66}k_{65}k_{64}k_{57} \oplus k_{74}k_{66}k_{65}k_{64}k_{57} \oplus k_{73}k_{72}k_{66}k_{65}k_{64}k_{57} \oplus$$

$$k_{63}k_{57} \oplus k_{79}k_{78}k_{63}k_{57} \oplus k_{79}k_{78}k_{74}k_{63}k_{57} \oplus k_{73}k_{63}k_{57} \oplus k_{79}k_{78}k_{73}k_{72}k_{63}k_{57} \oplus$$

$$k_{72}k_{71}k_{63}k_{57} \oplus k_{75}k_{62}k_{57} \oplus k_{74}k_{62}k_{57} \oplus k_{73}k_{62}k_{57} \oplus k_{72}k_{62}k_{57} \oplus$$

$$k_{72}k_{71}k_{62}k_{57} \oplus k_{74}k_{72}k_{71}k_{62}k_{57} \oplus k_{73}k_{72}k_{71}k_{62}k_{57} \oplus k_{71}k_{70}k_{62}k_{57} \oplus$$

$$k_{63}k_{62}k_{57} \oplus k_{61}k_{57} \oplus k_{74}k_{61}k_{57} \oplus k_{79}k_{78}k_{74}k_{61}k_{57} \oplus k_{73}k_{61}k_{57} \oplus k_{72}k_{61}k_{57} \oplus$$

$$k_{73}k_{72}k_{61}k_{57} \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_{57} \oplus k_{72}k_{71}k_{61}k_{57} \oplus k_{71}k_{70}k_{61}k_{57} \oplus$$

$$k_{62}k_{61}k_{57} \oplus k_{62}k_{60}k_{57} \oplus k_{61}k_{60}k_{57} \oplus k_{79}k_{78}k_{61}k_{60}k_{57} \oplus k_{75}k_{61}k_{60}k_{57} \oplus$$

$$k_{74}k_{61}k_{60}k_{57} \oplus k_{79}k_{78}k_{74}k_{61}k_{60}k_{57} \oplus k_{72}k_{61}k_{60}k_{57} \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_{60}k_{57} \oplus$$

$$k_{74}k_{72}k_{71}k_{61}k_{60}k_{57} \oplus k_{73}k_{72}k_{71}k_{61}k_{60}k_{57} \oplus k_{71}k_{70}k_{61}k_{60}k_{57} \oplus k_{59}k_{57} \oplus$$

$$k_{74}k_{60}k_{59}k_{57} \oplus k_{73}k_{60}k_{59}k_{57} \oplus k_{72}k_{60}k_{59}k_{57} \oplus k_{73}k_{72}k_{60}k_{59}k_{57} \oplus$$

$$k_{72}k_{71}k_{60}k_{59}k_{57} \oplus k_{71}k_{70}k_{60}k_{59}k_{57} \oplus k_{62}k_{60}k_{59}k_{57} \oplus k_{79}k_{78}k_{62}k_{60}k_{59}k_{57} \oplus$$

$$k_{79}k_{78}k_{74}k_{62}k_{60}k_{59}k_{57} \oplus k_{73}k_{62}k_{60}k_{59}k_{57} \oplus k_{79}k_{78}k_{73}k_{72}k_{62}k_{60}k_{59}k_{57} \oplus$$

$$k_{72}k_{71}k_{62}k_{60}k_{59}k_{57} \oplus k_{79}k_{78}k_{61}k_{60}k_{59}k_{57} \oplus k_{79}k_{78}k_{74}k_{61}k_{60}k_{59}k_{57} \oplus$$

$$k_{73}k_{61}k_{60}k_{59}k_{57} \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_{60}k_{59}k_{57} \oplus k_{72}k_{71}k_{61}k_{60}k_{59}k_{57} \oplus k_{58}k_{57} \oplus$$

$$k_{79}k_{78}k_{58}k_{57} \oplus k_{75}k_{58}k_{57} \oplus k_{74}k_{58}k_{57} \oplus k_{79}k_{78}k_{74}k_{58}k_{57} \oplus k_{73}k_{58}k_{57} \oplus$$

$$k_{79}k_{78}k_{73}k_{72}k_{58}k_{57} \oplus k_{72}k_{71}k_{58}k_{57} \oplus k_{74}k_{72}k_{71}k_{58}k_{57} \oplus k_{73}k_{72}k_{71}k_{58}k_{57} \oplus$$

$$k_{68}k_{58}k_{57} \oplus k_{64}k_{58}k_{57} \oplus k_{63}k_{58}k_{57} \oplus k_{75}k_{62}k_{58}k_{57} \oplus k_{73}k_{62}k_{58}k_{57} \oplus$$

$$k_{73}k_{72}k_{62}k_{58}k_{57} \oplus k_{72}k_{71}k_{62}k_{58}k_{57} \oplus k_{74}k_{72}k_{71}k_{62}k_{58}k_{57} \oplus$$

$$k_{73}k_{72}k_{71}k_{62}k_{58}k_{57} \oplus k_{63}k_{62}k_{58}k_{57} \oplus k_{61}k_{58}k_{57} \oplus k_{73}k_{61}k_{58}k_{57} \oplus$$

$$k_{72}k_{71}k_{61}k_{58}k_{57} \oplus k_{60}k_{58}k_{57} \oplus k_{62}k_{60}k_{58}k_{57} \oplus k_{75}k_{61}k_{60}k_{58}k_{57} \oplus$$

$$k_{73}k_{61}k_{60}k_{58}k_{57} \oplus k_{73}k_{72}k_{61}k_{60}k_{58}k_{57} \oplus k_{72}k_{71}k_{61}k_{60}k_{58}k_{57} \oplus$$

$$k_{74}k_{72}k_{71}k_{61}k_{60}k_{58}k_{57} \oplus k_{73}k_{72}k_{71}k_{61}k_{60}k_{58}k_{57} \oplus k_{59}k_{58}k_{57} \oplus k_{60}k_{59}k_{58}k_{57} \oplus$$

$$k_{73}k_{60}k_{59}k_{58}k_{57} \oplus k_{72}k_{71}k_{60}k_{59}k_{58}k_{57} \oplus k_{62}k_{60}k_{59}k_{58}k_{57} \oplus k_{61}k_{60}k_{59}k_{58}k_{57} \oplus$$

$$k_{61}k_{56} \oplus k_{61}k_{55} \oplus k_{60}k_{59}k_{55} \oplus k_{57}k_{55} \oplus k_{79}k_{78}k_{74}k_{57}k_{55} \oplus$$

$$k_{79}k_{78}k_{73}k_{72}k_{57}k_{55} \oplus k_{62}k_{57}k_{55} \oplus k_{61}k_{57}k_{55} \oplus k_{61}k_{60}k_{57}k_{55} \oplus k_{60}k_{59}k_{57}k_{55} \oplus$$

$$k_{56}k_{55} \oplus k_{57}k_{54} \oplus k_{73}k_{57}k_{54} \oplus k_{72}k_{71}k_{57}k_{54} \oplus k_{63}k_{57}k_{54} \oplus k_{62}k_{57}k_{54} \oplus$$

$$k_{74}k_{62}k_{57}k_{54} \oplus k_{73}k_{72}k_{62}k_{57}k_{54} \oplus k_{61}k_{57}k_{54} \oplus k_{74}k_{61}k_{57}k_{54} \oplus$$

$$k_{73}k_{72}k_{61}k_{57}k_{54} \oplus k_{74}k_{61}k_{60}k_{57}k_{54} \oplus k_{73}k_{72}k_{61}k_{60}k_{57}k_{54} \oplus k_{60}k_{59}k_{57}k_{54} \oplus$$

$$k_{74}k_{60}k_{59}k_{57}k_{54} \oplus k_{73}k_{72}k_{60}k_{59}k_{57}k_{54} \oplus k_{62}k_{60}k_{59}k_{57}k_{54} \oplus k_{61}k_{60}k_{59}k_{57}k_{54} \oplus$$

$$k_{53} \oplus k_{76}k_{53} \oplus k_{75}k_{74}k_{53} \oplus k_{71}k_{53} \oplus k_{74}k_{71}k_{53} \oplus k_{73}k_{72}k_{71}k_{53} \oplus k_{70}k_{69}k_{53} \oplus$$

$$k_{74}k_{70}k_{69}k_{53} \oplus k_{73}k_{72}k_{70}k_{69}k_{53} \oplus k_{68}k_{53} \oplus k_{64}k_{53} \oplus k_{62}k_{53} \oplus k_{78}k_{62}k_{53} \oplus$$

$$k_{77}k_{76}k_{62}k_{53} \oplus k_{63}k_{62}k_{53} \oplus k_{59}k_{53} \oplus k_{74}k_{59}k_{53} \oplus k_{73}k_{72}k_{59}k_{53} \oplus k_{60}k_{59}k_{53} \oplus$$

$$k_{58}k_{53} \oplus k_{76}k_{58}k_{53} \oplus k_{74}k_{58}k_{53} \oplus k_{75}k_{74}k_{58}k_{53} \oplus k_{73}k_{72}k_{58}k_{53} \oplus k_{73}k_{57}k_{53} \oplus$$

$$k_{72}k_{71}k_{57}k_{53} \oplus k_{63}k_{57}k_{53} \oplus k_{74}k_{63}k_{57}k_{53} \oplus k_{73}k_{72}k_{63}k_{57}k_{53} \oplus k_{74}k_{61}k_{57}k_{53} \oplus$$

$$k_{73}k_{72}k_{61}k_{57}k_{53} \oplus k_{61}k_{60}k_{57}k_{53} \oplus k_{74}k_{61}k_{60}k_{57}k_{53} \oplus k_{73}k_{72}k_{61}k_{60}k_{57}k_{53} \oplus$$

$$k_{62}k_{60}k_{59}k_{57}k_{53} \oplus k_{74}k_{62}k_{60}k_{59}k_{57}k_{53} \oplus k_{73}k_{72}k_{62}k_{60}k_{59}k_{57}k_{53} \oplus$$

$$k_{61}k_{60}k_{59}k_{57}k_{53} \oplus k_{74}k_{61}k_{60}k_{59}k_{57}k_{53} \oplus k_{73}k_{72}k_{61}k_{60}k_{59}k_{57}k_{53} \oplus k_{58}k_{57}k_{53} \oplus$$

$$k_{74}k_{58}k_{57}k_{53} \oplus k_{73}k_{72}k_{58}k_{57}k_{53} \oplus k_{74}k_{57}k_{55}k_{53} \oplus k_{73}k_{72}k_{57}k_{55}k_{53} \oplus k_{52} \oplus$$

$$k_{78}k_{62}k_{52} \oplus k_{77}k_{76}k_{62}k_{52} \oplus k_{77}k_{51} \oplus k_{76}k_{75}k_{51} \oplus k_{68}k_{51} \oplus k_{64}k_{51} \oplus$$

$$k_{79}k_{62}k_{51} \oplus k_{79}k_{78}k_{62}k_{51} \oplus k_{78}k_{77}k_{62}k_{51} \oplus k_{63}k_{62}k_{51} \oplus k_{62}k_{53}k_{51} \oplus$$

$$k_{62}k_{52}k_{51} \oplus k_{57}k_{52}k_{51} \oplus k_{74}k_{57}k_{52}k_{51} \oplus k_{73}k_{72}k_{57}k_{52}k_{51} \oplus k_{78}k_{50} \oplus$$

$$k_{77}k_{76}k_{50} \oplus k_{75}k_{50} \oplus k_{74}k_{50} \oplus k_{74}k_{73}k_{50} \oplus k_{73}k_{72}k_{50} \oplus k_{64}k_{50} \oplus k_{62}k_{50} \oplus$$

$$k_{76}k_{62}k_{50} \oplus k_{75}k_{74}k_{62}k_{50} \oplus k_{63}k_{62}k_{50} \oplus k_{61}k_{60}k_{50} \oplus k_{64}k_{58}k_{50} \oplus$$

$$k_{63}k_{62}k_{58}k_{50} \oplus k_{51}k_{50} \oplus k_{49} \oplus k_{79}k_{78}k_{49} \oplus k_{75}k_{49} \oplus k_{74}k_{49} \oplus k_{74}k_{73}k_{49} \oplus$$

$$k_{73}k_{72}k_{49} \oplus k_{68}k_{49} \oplus k_{77}k_{62}k_{49} \oplus k_{76}k_{75}k_{62}k_{49} \oplus k_{79}k_{78}k_{58}k_{49} \oplus k_{62}k_{58}k_{49} \oplus$$

$$k_{61}k_{60}k_{58}k_{49} \oplus k_{53}k_{49} \oplus k_{58}k_{53}k_{49} \oplus k_{50}k_{49} \oplus k_{62}k_{50}k_{49} \oplus k_{77}k_{48} \oplus k_{75}k_{48} \oplus$$

$$k_{76}k_{75}k_{48} \oplus k_{74}k_{48} \oplus k_{74}k_{73}k_{48} \oplus k_{73}k_{72}k_{48} \oplus k_{62}k_{48} \oplus k_{71}k_{62}k_{48} \oplus$$

$$k_{70}k_{69}k_{62}k_{48} \oplus k_{61}k_{48} \oplus k_{61}k_{60}k_{48} \oplus k_{71}k_{61}k_{60}k_{48} \oplus k_{70}k_{69}k_{61}k_{60}k_{48} \oplus$$

$$k_{62}k_{59}k_{48} \oplus k_{60}k_{59}k_{48} \oplus k_{61}k_{60}k_{59}k_{48} \oplus k_{62}k_{58}k_{48} \oplus k_{74}k_{62}k_{58}k_{48} \oplus$$

$$k_{73}k_{72}k_{62}k_{58}k_{48} \oplus k_{61}k_{60}k_{58}k_{48} \oplus k_{74}k_{61}k_{60}k_{58}k_{48} \oplus k_{73}k_{72}k_{61}k_{60}k_{58}k_{48} \oplus$$

$$k_{57}k_{48} \oplus k_{79}k_{78}k_{57}k_{48} \oplus k_{79}k_{78}k_{74}k_{57}k_{48} \oplus k_{73}k_{57}k_{48} \oplus k_{79}k_{78}k_{73}k_{72}k_{57}k_{48} \oplus$$

$$k_{72}k_{71}k_{57}k_{48} \oplus k_{62}k_{57}k_{48} \oplus k_{61}k_{60}k_{57}k_{48} \oplus k_{62}k_{58}k_{57}k_{48} \oplus k_{61}k_{60}k_{58}k_{57}k_{48} \oplus$$

$$k_{57}k_{54}k_{48} \oplus k_{57}k_{53}k_{48} \oplus k_{74}k_{57}k_{53}k_{48} \oplus k_{73}k_{72}k_{57}k_{53}k_{48} \oplus k_{50}k_{48} \oplus k_{47} \oplus$$

$$k_{77}k_{47} \oplus k_{76}k_{47} \oplus k_{75}k_{47} \oplus k_{76}k_{75}k_{47} \oplus k_{75}k_{74}k_{47} \oplus k_{73}k_{47} \oplus k_{74}k_{73}k_{47} \oplus$$

$$k_{71}k_{47} \oplus k_{79}k_{78}k_{71}k_{47} \oplus k_{73}k_{71}k_{47} \oplus k_{70}k_{69}k_{47} \oplus k_{79}k_{78}k_{70}k_{69}k_{47} \oplus$$

$$k_{73}k_{70}k_{69}k_{47} \oplus k_{72}k_{71}k_{70}k_{69}k_{47} \oplus k_{64}k_{47} \oplus k_{73}k_{71}k_{62}k_{47} \oplus k_{72}k_{71}k_{62}k_{47} \oplus$$

$$k_{73}k_{70}k_{69}k_{62}k_{47} \oplus k_{72}k_{71}k_{70}k_{69}k_{62}k_{47} \oplus k_{63}k_{62}k_{47} \oplus k_{73}k_{71}k_{61}k_{60}k_{47} \oplus$$

$$k_{72}k_{71}k_{61}k_{60}k_{47} \oplus k_{73}k_{70}k_{69}k_{61}k_{60}k_{47} \oplus k_{72}k_{71}k_{70}k_{69}k_{61}k_{60}k_{47} \oplus k_{59}k_{47} \oplus$$

$$k_{79}k_{78}k_{59}k_{47} \oplus k_{73}k_{59}k_{47} \oplus k_{72}k_{71}k_{59}k_{47} \oplus k_{73}k_{62}k_{59}k_{47} \oplus k_{72}k_{71}k_{62}k_{59}k_{47} \oplus$$

$$k_{73}k_{61}k_{60}k_{59}k_{47} \oplus k_{72}k_{71}k_{61}k_{60}k_{59}k_{47} \oplus k_{79}k_{78}k_{58}k_{47} \oplus k_{73}k_{58}k_{47} \oplus$$

$$k_{72}k_{71}k_{58}k_{47} \oplus k_{64}k_{58}k_{47} \oplus k_{62}k_{58}k_{47} \oplus k_{75}k_{62}k_{58}k_{47} \oplus k_{73}k_{62}k_{58}k_{47} \oplus$$

$$k_{74}k_{73}k_{62}k_{58}k_{47} \oplus k_{72}k_{71}k_{62}k_{58}k_{47} \oplus k_{63}k_{62}k_{58}k_{47} \oplus k_{61}k_{60}k_{58}k_{47} \oplus$$

$$k_{75}k_{61}k_{60}k_{58}k_{47} \oplus k_{73}k_{61}k_{60}k_{58}k_{47} \oplus k_{74}k_{73}k_{61}k_{60}k_{58}k_{47} \oplus$$

$$k_{72}k_{71}k_{61}k_{60}k_{58}k_{47} \oplus k_{57}k_{47} \oplus k_{79}k_{78}k_{57}k_{47} \oplus k_{68}k_{57}k_{47} \oplus k_{67}k_{57}k_{47} \oplus$$

$$k_{67}k_{65}k_{64}k_{57}k_{47} \oplus k_{66}k_{65}k_{64}k_{57}k_{47} \oplus k_{79}k_{78}k_{63}k_{57}k_{47} \oplus k_{62}k_{57}k_{47} \oplus$$

$$k_{73}k_{62}k_{57}k_{47} \oplus k_{72}k_{71}k_{62}k_{57}k_{47} \oplus k_{61}k_{57}k_{47} \oplus k_{79}k_{78}k_{61}k_{57}k_{47} \oplus$$

$$k_{61}k_{60}k_{57}k_{47} \oplus k_{79}k_{78}k_{61}k_{60}k_{57}k_{47} \oplus k_{73}k_{61}k_{60}k_{57}k_{47} \oplus k_{72}k_{71}k_{61}k_{60}k_{57}k_{47} \oplus$$

$$k_{60}k_{59}k_{57}k_{47} \oplus k_{79}k_{78}k_{62}k_{60}k_{59}k_{57}k_{47} \oplus k_{79}k_{78}k_{61}k_{60}k_{59}k_{57}k_{47} \oplus k_{58}k_{57}k_{47} \oplus$$

$$k_{79}k_{78}k_{58}k_{57}k_{47} \oplus k_{73}k_{58}k_{57}k_{47} \oplus k_{72}k_{71}k_{58}k_{57}k_{47} \oplus k_{73}k_{62}k_{58}k_{57}k_{47} \oplus$$

$$k_{72}k_{71}k_{62}k_{58}k_{57}k_{47} \oplus k_{73}k_{61}k_{60}k_{58}k_{57}k_{47} \oplus k_{72}k_{71}k_{61}k_{60}k_{58}k_{57}k_{47} \oplus$$

$$k_{79}k_{78}k_{57}k_{55}k_{47} \oplus k_{62}k_{57}k_{54}k_{47} \oplus k_{61}k_{57}k_{54}k_{47} \oplus k_{61}k_{60}k_{57}k_{54}k_{47} \oplus$$

$$k_{60}k_{59}k_{57}k_{54}k_{47} \oplus k_{71}k_{53}k_{47} \oplus k_{70}k_{69}k_{53}k_{47} \oplus k_{59}k_{53}k_{47} \oplus k_{58}k_{53}k_{47} \oplus$$

$$k_{63}k_{57}k_{53}k_{47} \oplus k_{61}k_{57}k_{53}k_{47} \oplus k_{61}k_{60}k_{57}k_{53}k_{47} \oplus k_{62}k_{60}k_{59}k_{57}k_{53}k_{47} \oplus$$

$$k_{61}k_{60}k_{59}k_{57}k_{53}k_{47} \oplus k_{58}k_{57}k_{53}k_{47} \oplus k_{57}k_{55}k_{53}k_{47} \oplus k_{57}k_{52}k_{51}k_{47} \oplus k_{50}k_{47} \oplus$$

$$k_{49}k_{47} \oplus k_{75}k_{48}k_{47} \oplus k_{74}k_{73}k_{48}k_{47} \oplus k_{62}k_{58}k_{48}k_{47} \oplus k_{61}k_{60}k_{58}k_{48}k_{47} \oplus$$

$$k_{79}k_{78}k_{57}k_{48}k_{47} \oplus k_{57}k_{53}k_{48}k_{47} \oplus k_{46} \oplus k_{74}k_{46} \oplus k_{72}k_{46} \oplus k_{73}k_{72}k_{46} \oplus$$

$$k_{71}k_{46} \oplus k_{74}k_{71}k_{46} \oplus k_{73}k_{72}k_{71}k_{46} \oplus k_{71}k_{70}k_{46} \oplus k_{70}k_{69}k_{46} \oplus k_{74}k_{70}k_{69}k_{46} \oplus$$

$$k_{73}k_{72}k_{70}k_{69}k_{46} \oplus k_{71}k_{62}k_{46} \oplus k_{74}k_{71}k_{62}k_{46} \oplus k_{73}k_{72}k_{71}k_{62}k_{46} \oplus$$

$$k_{70}k_{69}k_{62}k_{46} \oplus k_{74}k_{70}k_{69}k_{62}k_{46} \oplus k_{73}k_{72}k_{70}k_{69}k_{62}k_{46} \oplus k_{71}k_{61}k_{46} \oplus$$

$$k_{70}k_{69}k_{61}k_{46} \oplus k_{71}k_{61}k_{60}k_{46} \oplus k_{74}k_{71}k_{61}k_{60}k_{46} \oplus k_{73}k_{72}k_{71}k_{61}k_{60}k_{46} \oplus$$

$$k_{70}k_{69}k_{61}k_{60}k_{46} \oplus k_{74}k_{70}k_{69}k_{61}k_{60}k_{46} \oplus k_{73}k_{72}k_{70}k_{69}k_{61}k_{60}k_{46} \oplus k_{74}k_{59}k_{46} \oplus$$

$$k_{73}k_{72}k_{59}k_{46} \oplus k_{62}k_{59}k_{46} \oplus k_{74}k_{62}k_{59}k_{46} \oplus k_{73}k_{72}k_{62}k_{59}k_{46} \oplus k_{61}k_{59}k_{46} \oplus$$

$$k_{60}k_{59}k_{46} \oplus k_{71}k_{60}k_{59}k_{46} \oplus k_{70}k_{69}k_{60}k_{59}k_{46} \oplus k_{61}k_{60}k_{59}k_{46} \oplus$$

$$k_{74}k_{61}k_{60}k_{59}k_{46} \oplus k_{73}k_{72}k_{61}k_{60}k_{59}k_{46} \oplus k_{74}k_{58}k_{46} \oplus k_{73}k_{72}k_{58}k_{46} \oplus$$

$$k_{74}k_{62}k_{58}k_{46} \oplus k_{73}k_{72}k_{62}k_{58}k_{46} \oplus k_{74}k_{61}k_{60}k_{58}k_{46} \oplus k_{73}k_{72}k_{61}k_{60}k_{58}k_{46} \oplus$$

$$k_{57}k_{46} \oplus k_{79}k_{78}k_{57}k_{46} \oplus k_{63}k_{57}k_{46} \oplus k_{62}k_{57}k_{46} \oplus k_{74}k_{62}k_{57}k_{46} \oplus$$

$$k_{73}k_{72}k_{62}k_{57}k_{46} \oplus k_{61}k_{57}k_{46} \oplus k_{74}k_{61}k_{60}k_{57}k_{46} \oplus k_{73}k_{72}k_{61}k_{60}k_{57}k_{46} \oplus$$

$$k_{60}k_{59}k_{57}k_{46} \oplus k_{62}k_{60}k_{59}k_{57}k_{46} \oplus k_{61}k_{60}k_{59}k_{57}k_{46} \oplus k_{58}k_{57}k_{46} \oplus$$

$$k_{74}k_{58}k_{57}k_{46} \oplus k_{73}k_{72}k_{58}k_{57}k_{46} \oplus k_{62}k_{58}k_{57}k_{46} \oplus k_{74}k_{62}k_{58}k_{57}k_{46} \oplus$$

$$k_{73}k_{72}k_{62}k_{58}k_{57}k_{46} \oplus k_{61}k_{58}k_{57}k_{46} \oplus k_{61}k_{60}k_{58}k_{57}k_{46} \oplus k_{74}k_{61}k_{60}k_{58}k_{57}k_{46} \oplus$$

$$k_{73}k_{72}k_{61}k_{60}k_{58}k_{57}k_{46} \oplus k_{60}k_{59}k_{58}k_{57}k_{46} \oplus k_{57}k_{54}k_{46} \oplus k_{57}k_{53}k_{46} \oplus$$

$$k_{57}k_{48}k_{46} \oplus k_{75}k_{47}k_{46} \oplus k_{74}k_{73}k_{47}k_{46} \oplus k_{71}k_{62}k_{47}k_{46} \oplus k_{70}k_{69}k_{62}k_{47}k_{46} \oplus$$

$$k_{71}k_{61}k_{60}k_{47}k_{46} \oplus k_{70}k_{69}k_{61}k_{60}k_{47}k_{46} \oplus k_{62}k_{59}k_{47}k_{46} \oplus k_{61}k_{60}k_{59}k_{47}k_{46} \oplus$$

$$k_{58}k_{47}k_{46} \oplus k_{62}k_{58}k_{47}k_{46} \oplus k_{61}k_{60}k_{58}k_{47}k_{46} \oplus k_{79}k_{78}k_{74}k_{57}k_{47}k_{46} \oplus$$

$$k_{73}k_{57}k_{47}k_{46} \oplus k_{79}k_{78}k_{73}k_{72}k_{57}k_{47}k_{46} \oplus k_{72}k_{71}k_{57}k_{47}k_{46} \oplus k_{62}k_{57}k_{47}k_{46} \oplus$$

$$k_{61}k_{60}k_{57}k_{47}k_{46} \oplus k_{62}k_{58}k_{57}k_{47}k_{46} \oplus k_{61}k_{60}k_{58}k_{57}k_{47}k_{46} \oplus k_{57}k_{54}k_{47}k_{46} \oplus$$

$$k_{74}k_{57}k_{53}k_{47}k_{46} \oplus k_{73}k_{72}k_{57}k_{53}k_{47}k_{46} \oplus k_{48}k_{47}k_{46} \oplus k_{45} \oplus k_{73}k_{45} \oplus$$

$$k_{72}k_{71}k_{45} \oplus k_{62}k_{58}k_{45} \oplus k_{61}k_{58}k_{45} \oplus k_{61}k_{60}k_{58}k_{45} \oplus k_{60}k_{59}k_{58}k_{45} \oplus k_{57}k_{45} \oplus$$

$$k_{62}k_{57}k_{45} \oplus k_{61}k_{57}k_{45} \oplus k_{61}k_{60}k_{57}k_{45} \oplus k_{60}k_{59}k_{57}k_{45} \oplus k_{46}k_{45} \oplus k_{79}k_{78}k_{44} \oplus$$

$$k_{75}k_{44} \oplus k_{74}k_{44} \oplus k_{79}k_{78}k_{74}k_{44} \oplus k_{73}k_{44} \oplus k_{79}k_{78}k_{73}k_{72}k_{44} \oplus k_{72}k_{71}k_{44} \oplus$$

$$k_{74}k_{72}k_{71}k_{44} \oplus k_{73}k_{72}k_{71}k_{44} \oplus k_{68}k_{44} \oplus k_{64}k_{44} \oplus k_{63}k_{44} \oplus k_{75}k_{62}k_{44} \oplus$$

$$k_{73}k_{62}k_{44} \oplus k_{73}k_{72}k_{62}k_{44} \oplus k_{72}k_{71}k_{62}k_{44} \oplus k_{74}k_{72}k_{71}k_{62}k_{44} \oplus$$

$$k_{73}k_{72}k_{71}k_{62}k_{44} \oplus k_{63}k_{62}k_{44} \oplus k_{61}k_{44} \oplus k_{73}k_{61}k_{44} \oplus k_{72}k_{71}k_{61}k_{44} \oplus k_{60}k_{44} \oplus$$

$$k_{62}k_{60}k_{44} \oplus k_{75}k_{61}k_{60}k_{44} \oplus k_{73}k_{61}k_{60}k_{44} \oplus k_{73}k_{72}k_{61}k_{60}k_{44} \oplus$$

$$k_{72}k_{71}k_{61}k_{60}k_{44} \oplus k_{74}k_{72}k_{71}k_{61}k_{60}k_{44} \oplus k_{73}k_{72}k_{71}k_{61}k_{60}k_{44} \oplus k_{60}k_{59}k_{44} \oplus$$

$$k_{73}k_{60}k_{59}k_{44} \oplus k_{72}k_{71}k_{60}k_{59}k_{44} \oplus k_{62}k_{60}k_{59}k_{44} \oplus k_{61}k_{60}k_{59}k_{44} \oplus k_{59}k_{58}k_{44} \oplus$$

$$k_{62}k_{59}k_{58}k_{44} \oplus k_{61}k_{60}k_{59}k_{58}k_{44} \oplus k_{53}k_{44} \oplus k_{74}k_{53}k_{44} \oplus k_{73}k_{72}k_{53}k_{44} \oplus$$

$$k_{62}k_{48}k_{44} \oplus k_{61}k_{60}k_{48}k_{44} \oplus k_{47}k_{44} \oplus k_{79}k_{78}k_{47}k_{44} \oplus k_{73}k_{47}k_{44} \oplus$$

$$k_{72}k_{71}k_{47}k_{44} \oplus k_{73}k_{62}k_{47}k_{44} \oplus k_{72}k_{71}k_{62}k_{47}k_{44} \oplus k_{73}k_{61}k_{60}k_{47}k_{44} \oplus$$

$$k_{72}k_{71}k_{61}k_{60}k_{47}k_{44} \oplus k_{53}k_{47}k_{44} \oplus k_{46}k_{44} \oplus k_{74}k_{46}k_{44} \oplus k_{73}k_{72}k_{46}k_{44} \oplus$$

$$k_{62}k_{46}k_{44} \oplus k_{74}k_{62}k_{46}k_{44} \oplus k_{73}k_{72}k_{62}k_{46}k_{44} \oplus k_{61}k_{46}k_{44} \oplus k_{61}k_{60}k_{46}k_{44} \oplus$$

$$k_{74}k_{61}k_{60}k_{46}k_{44} \oplus k_{73}k_{72}k_{61}k_{60}k_{46}k_{44} \oplus k_{60}k_{59}k_{46}k_{44} \oplus k_{62}k_{47}k_{46}k_{44} \oplus$$

$$k_{61}k_{60}k_{47}k_{46}k_{44} \oplus k_{42} \oplus k_{41} \oplus k_{78}k_{41} \oplus k_{77}k_{76}k_{41} \oplus k_{65}k_{41} \oplus k_{64}k_{63}k_{41} \oplus$$

$$k_{57}k_{41} \oplus k_{74}k_{57}k_{41} \oplus k_{73}k_{72}k_{57}k_{41} \oplus k_{51}k_{41} \oplus k_{57}k_{47}k_{41} \oplus k_{57}k_{40} \oplus$$

$$k_{74}k_{57}k_{40} \oplus k_{73}k_{72}k_{57}k_{40} \oplus k_{66}k_{57}k_{40} \oplus k_{74}k_{66}k_{57}k_{40} \oplus k_{73}k_{72}k_{66}k_{57}k_{40} \oplus$$

$$k_{65}k_{64}k_{57}k_{40} \oplus k_{74}k_{65}k_{64}k_{57}k_{40} \oplus k_{73}k_{72}k_{65}k_{64}k_{57}k_{40} \oplus k_{57}k_{47}k_{40} \oplus$$

$$k_{66}k_{57}k_{47}k_{40} \oplus k_{65}k_{64}k_{57}k_{47}k_{40} \oplus k_{39} \oplus k_{62}k_{39} \oplus k_{67}k_{57}k_{39} \oplus k_{74}k_{67}k_{57}k_{39} \oplus$$

$$k_{73}k_{72}k_{67}k_{57}k_{39} \oplus k_{66}k_{65}k_{57}k_{39} \oplus k_{74}k_{66}k_{65}k_{57}k_{39} \oplus k_{73}k_{72}k_{66}k_{65}k_{57}k_{39} \oplus$$

$$k_{67}k_{57}k_{47}k_{39} \oplus k_{66}k_{65}k_{57}k_{47}k_{39} \oplus k_{57}k_{40}k_{39} \oplus k_{74}k_{57}k_{40}k_{39} \oplus$$

$$k_{73}k_{72}k_{57}k_{40}k_{39} \oplus k_{57}k_{47}k_{40}k_{39} \oplus k_{38} \oplus k_{68}k_{38} \oplus k_{67}k_{66}k_{38} \oplus k_{41}k_{38} \oplus$$

$$k_{78}k_{37} \oplus k_{79}k_{78}k_{37} \oplus k_{77}k_{37} \oplus k_{77}k_{76}k_{37} \oplus k_{76}k_{75}k_{37} \oplus k_{74}k_{37} \oplus k_{73}k_{72}k_{37} \oplus$$

$$k_{71}k_{37} \oplus k_{70}k_{69}k_{37} \oplus k_{63}k_{37} \oplus k_{62}k_{37} \oplus k_{62}k_{61}k_{37} \oplus k_{59}k_{37} \oplus k_{58}k_{37} \oplus$$

$$k_{77}k_{58}k_{37} \oplus k_{76}k_{75}k_{58}k_{37} \oplus k_{74}k_{58}k_{37} \oplus k_{73}k_{72}k_{58}k_{37} \oplus k_{57}k_{37} \oplus k_{58}k_{57}k_{37} \oplus$$

$$k_{53}k_{37} \oplus k_{51}k_{37} \oplus k_{50}k_{37} \oplus k_{58}k_{50}k_{37} \oplus k_{47}k_{37} \oplus k_{58}k_{47}k_{37} \oplus k_{44}k_{37} \oplus k_{36} \oplus$$

$$k_{71}k_{36} \oplus k_{70}k_{69}k_{36} \oplus k_{64}k_{36} \oplus k_{63}k_{62}k_{36} \oplus k_{61}k_{36} \oplus k_{59}k_{36} \oplus k_{57}k_{36} \oplus$$

$$k_{79}k_{78}k_{57}k_{36} \oplus k_{79}k_{78}k_{74}k_{57}k_{36} \oplus k_{73}k_{57}k_{36} \oplus k_{79}k_{78}k_{73}k_{72}k_{57}k_{36} \oplus$$
$$k_{72}k_{71}k_{57}k_{36} \oplus k_{58}k_{57}k_{36} \oplus k_{57}k_{54}k_{36} \oplus k_{57}k_{53}k_{36} \oplus k_{74}k_{57}k_{53}k_{36} \oplus$$
$$k_{73}k_{72}k_{57}k_{53}k_{36} \oplus k_{79}k_{78}k_{57}k_{47}k_{36} \oplus k_{57}k_{53}k_{47}k_{36} \oplus k_{57}k_{46}k_{36} \oplus k_{44}k_{36} \oplus$$
$$k_{35} \oplus k_{77}k_{35} \oplus k_{75}k_{35} \oplus k_{76}k_{75}k_{35} \oplus k_{74}k_{73}k_{35} \oplus k_{75}k_{71}k_{35} \oplus k_{73}k_{71}k_{35} \oplus$$
$$k_{72}k_{71}k_{35} \oplus k_{74}k_{72}k_{71}k_{35} \oplus k_{75}k_{70}k_{69}k_{35} \oplus k_{73}k_{70}k_{69}k_{35} \oplus k_{73}k_{72}k_{70}k_{69}k_{35} \oplus$$
$$k_{72}k_{71}k_{70}k_{69}k_{35} \oplus k_{74}k_{72}k_{71}k_{70}k_{69}k_{35} \oplus k_{73}k_{72}k_{71}k_{70}k_{69}k_{35} \oplus k_{61}k_{35} \oplus$$
$$k_{71}k_{61}k_{35} \oplus k_{70}k_{69}k_{61}k_{35} \oplus k_{71}k_{60}k_{35} \oplus k_{70}k_{69}k_{60}k_{35} \oplus k_{75}k_{59}k_{35} \oplus$$
$$k_{73}k_{59}k_{35} \oplus k_{73}k_{72}k_{59}k_{35} \oplus k_{72}k_{71}k_{59}k_{35} \oplus k_{74}k_{72}k_{71}k_{59}k_{35} \oplus$$
$$k_{73}k_{72}k_{71}k_{59}k_{35} \oplus k_{61}k_{59}k_{35} \oplus k_{60}k_{59}k_{35} \oplus k_{71}k_{60}k_{59}k_{35} \oplus k_{70}k_{69}k_{60}k_{59}k_{35} \oplus$$
$$k_{58}k_{35} \oplus k_{76}k_{58}k_{35} \oplus k_{75}k_{58}k_{35} \oplus k_{74}k_{58}k_{35} \oplus k_{74}k_{73}k_{58}k_{35} \oplus k_{72}k_{58}k_{35} \oplus$$
$$k_{75}k_{73}k_{72}k_{58}k_{35} \oplus k_{74}k_{73}k_{72}k_{58}k_{35} \oplus k_{74}k_{72}k_{71}k_{58}k_{35} \oplus k_{73}k_{72}k_{71}k_{58}k_{35} \oplus$$
$$k_{71}k_{70}k_{58}k_{35} \oplus k_{59}k_{58}k_{35} \oplus k_{71}k_{59}k_{58}k_{35} \oplus k_{70}k_{69}k_{59}k_{58}k_{35} \oplus k_{75}k_{57}k_{35} \oplus$$
$$k_{74}k_{57}k_{35} \oplus k_{73}k_{57}k_{35} \oplus k_{72}k_{57}k_{35} \oplus k_{72}k_{71}k_{57}k_{35} \oplus k_{74}k_{72}k_{71}k_{57}k_{35} \oplus$$
$$k_{73}k_{72}k_{71}k_{57}k_{35} \oplus k_{71}k_{70}k_{57}k_{35} \oplus k_{79}k_{78}k_{61}k_{57}k_{35} \oplus k_{79}k_{78}k_{74}k_{61}k_{57}k_{35} \oplus$$
$$k_{73}k_{61}k_{57}k_{35} \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_{57}k_{35} \oplus k_{72}k_{71}k_{61}k_{57}k_{35} \oplus k_{60}k_{57}k_{35} \oplus$$
$$k_{60}k_{59}k_{57}k_{35} \oplus k_{79}k_{78}k_{60}k_{59}k_{57}k_{35} \oplus k_{79}k_{78}k_{74}k_{60}k_{59}k_{57}k_{35} \oplus$$
$$k_{73}k_{60}k_{59}k_{57}k_{35} \oplus k_{79}k_{78}k_{73}k_{72}k_{60}k_{59}k_{57}k_{35} \oplus k_{72}k_{71}k_{60}k_{59}k_{57}k_{35} \oplus$$
$$k_{75}k_{58}k_{57}k_{35} \oplus k_{73}k_{58}k_{57}k_{35} \oplus k_{73}k_{72}k_{58}k_{57}k_{35} \oplus k_{72}k_{71}k_{58}k_{57}k_{35} \oplus$$
$$k_{74}k_{72}k_{71}k_{58}k_{57}k_{35} \oplus k_{73}k_{72}k_{71}k_{58}k_{57}k_{35} \oplus k_{61}k_{58}k_{57}k_{35} \oplus k_{60}k_{58}k_{57}k_{35} \oplus$$
$$k_{60}k_{59}k_{58}k_{57}k_{35} \oplus k_{57}k_{55}k_{35} \oplus k_{57}k_{54}k_{35} \oplus k_{74}k_{57}k_{54}k_{35} \oplus k_{73}k_{72}k_{57}k_{54}k_{35} \oplus$$
$$k_{61}k_{57}k_{54}k_{35} \oplus k_{60}k_{59}k_{57}k_{54}k_{35} \oplus k_{61}k_{57}k_{53}k_{35} \oplus k_{74}k_{61}k_{57}k_{53}k_{35} \oplus$$
$$k_{73}k_{72}k_{61}k_{57}k_{53}k_{35} \oplus k_{60}k_{59}k_{57}k_{53}k_{35} \oplus k_{74}k_{60}k_{59}k_{57}k_{53}k_{35} \oplus$$
$$k_{73}k_{72}k_{60}k_{59}k_{57}k_{53}k_{35} \oplus k_{50}k_{35} \oplus k_{58}k_{49}k_{35} \oplus k_{48}k_{35} \oplus k_{71}k_{48}k_{35} \oplus$$
$$k_{70}k_{69}k_{48}k_{35} \oplus k_{59}k_{48}k_{35} \oplus k_{58}k_{48}k_{35} \oplus k_{74}k_{58}k_{48}k_{35} \oplus k_{73}k_{72}k_{58}k_{48}k_{35} \oplus$$
$$k_{57}k_{48}k_{35} \oplus k_{58}k_{57}k_{48}k_{35} \oplus k_{73}k_{71}k_{47}k_{35} \oplus k_{72}k_{71}k_{47}k_{35} \oplus k_{73}k_{70}k_{69}k_{47}k_{35} \oplus$$
$$k_{72}k_{71}k_{70}k_{69}k_{47}k_{35} \oplus k_{73}k_{59}k_{47}k_{35} \oplus k_{72}k_{71}k_{59}k_{47}k_{35} \oplus k_{58}k_{47}k_{35} \oplus$$
$$k_{75}k_{58}k_{47}k_{35} \oplus k_{73}k_{58}k_{47}k_{35} \oplus k_{74}k_{73}k_{58}k_{47}k_{35} \oplus k_{72}k_{71}k_{58}k_{47}k_{35} \oplus$$
$$k_{57}k_{47}k_{35} \oplus k_{73}k_{57}k_{47}k_{35} \oplus k_{72}k_{71}k_{57}k_{47}k_{35} \oplus k_{79}k_{78}k_{61}k_{57}k_{47}k_{35} \oplus$$
$$k_{79}k_{78}k_{60}k_{59}k_{57}k_{47}k_{35} \oplus k_{73}k_{58}k_{57}k_{47}k_{35} \oplus k_{72}k_{71}k_{58}k_{57}k_{47}k_{35} \oplus$$
$$k_{57}k_{54}k_{47}k_{35} \oplus k_{61}k_{57}k_{53}k_{47}k_{35} \oplus k_{60}k_{59}k_{57}k_{53}k_{47}k_{35} \oplus k_{58}k_{48}k_{47}k_{35} \oplus$$
$$k_{71}k_{46}k_{35} \oplus k_{74}k_{71}k_{46}k_{35} \oplus k_{73}k_{72}k_{71}k_{46}k_{35} \oplus k_{70}k_{69}k_{46}k_{35} \oplus$$
$$k_{74}k_{70}k_{69}k_{46}k_{35} \oplus k_{73}k_{72}k_{70}k_{69}k_{46}k_{35} \oplus k_{59}k_{46}k_{35} \oplus k_{74}k_{59}k_{46}k_{35} \oplus$$
$$k_{73}k_{72}k_{59}k_{46}k_{35} \oplus k_{74}k_{58}k_{46}k_{35} \oplus k_{73}k_{72}k_{58}k_{46}k_{35} \oplus k_{57}k_{46}k_{35} \oplus$$
$$k_{74}k_{57}k_{46}k_{35} \oplus k_{73}k_{72}k_{57}k_{46}k_{35} \oplus k_{61}k_{57}k_{46}k_{35} \oplus k_{60}k_{59}k_{57}k_{46}k_{35} \oplus$$
$$k_{58}k_{57}k_{46}k_{35} \oplus k_{74}k_{58}k_{57}k_{46}k_{35} \oplus k_{73}k_{72}k_{58}k_{57}k_{46}k_{35} \oplus k_{71}k_{47}k_{46}k_{35} \oplus$$
$$k_{70}k_{69}k_{47}k_{46}k_{35} \oplus k_{59}k_{47}k_{46}k_{35} \oplus k_{58}k_{47}k_{46}k_{35} \oplus k_{57}k_{47}k_{46}k_{35} \oplus$$

$$k_{58}k_{57}k_{47}k_{46}k_{35} \oplus k_{58}k_{45}k_{35} \oplus k_{57}k_{45}k_{35} \oplus k_{75}k_{44}k_{35} \oplus k_{73}k_{44}k_{35}\oplus$$
$$k_{73}k_{72}k_{44}k_{35} \oplus k_{72}k_{71}k_{44}k_{35} \oplus k_{74}k_{72}k_{71}k_{44}k_{35} \oplus k_{73}k_{72}k_{71}k_{44}k_{35}\oplus$$
$$k_{61}k_{44}k_{35} \oplus k_{60}k_{44}k_{35} \oplus k_{60}k_{59}k_{44}k_{35} \oplus k_{59}k_{58}k_{44}k_{35} \oplus k_{48}k_{44}k_{35}\oplus$$
$$k_{73}k_{47}k_{44}k_{35} \oplus k_{72}k_{71}k_{47}k_{44}k_{35} \oplus k_{46}k_{44}k_{35} \oplus k_{74}k_{46}k_{44}k_{35}\oplus$$
$$k_{73}k_{72}k_{46}k_{44}k_{35} \oplus k_{47}k_{46}k_{44}k_{35} \oplus k_{34} \oplus k_{79}k_{78}k_{34} \oplus k_{75}k_{34} \oplus k_{74}k_{73}k_{34}\oplus$$
$$k_{71}k_{34} \oplus k_{73}k_{71}k_{34} \oplus k_{72}k_{71}k_{34} \oplus k_{70}k_{69}k_{34} \oplus k_{73}k_{70}k_{69}k_{34}\oplus$$
$$k_{72}k_{71}k_{70}k_{69}k_{34} \oplus k_{62}k_{34} \oplus k_{71}k_{62}k_{34} \oplus k_{70}k_{69}k_{62}k_{34} \oplus k_{61}k_{60}k_{34}\oplus$$
$$k_{71}k_{61}k_{60}k_{34} \oplus k_{70}k_{69}k_{61}k_{60}k_{34} \oplus k_{59}k_{34} \oplus k_{73}k_{59}k_{34} \oplus k_{72}k_{71}k_{59}k_{34}\oplus$$
$$k_{62}k_{59}k_{34} \oplus k_{61}k_{60}k_{59}k_{34} \oplus k_{72}k_{58}k_{34} \oplus k_{71}k_{70}k_{58}k_{34} \oplus k_{60}k_{58}k_{34}\oplus$$
$$k_{59}k_{58}k_{34} \oplus k_{74}k_{57}k_{34} \oplus k_{73}k_{57}k_{34} \oplus k_{72}k_{57}k_{34} \oplus k_{73}k_{72}k_{57}k_{34}\oplus$$
$$k_{72}k_{71}k_{57}k_{34} \oplus k_{71}k_{70}k_{57}k_{34} \oplus k_{62}k_{57}k_{34} \oplus k_{79}k_{78}k_{62}k_{57}k_{34}\oplus$$
$$k_{79}k_{78}k_{74}k_{62}k_{57}k_{34} \oplus k_{73}k_{62}k_{57}k_{34} \oplus k_{79}k_{78}k_{73}k_{72}k_{62}k_{57}k_{34}\oplus$$
$$k_{72}k_{71}k_{62}k_{57}k_{34} \oplus k_{61}k_{57}k_{34} \oplus k_{61}k_{60}k_{57}k_{34} \oplus k_{79}k_{78}k_{61}k_{60}k_{57}k_{34}\oplus$$
$$k_{79}k_{78}k_{74}k_{61}k_{60}k_{57}k_{34} \oplus k_{73}k_{61}k_{60}k_{57}k_{34} \oplus k_{79}k_{78}k_{73}k_{72}k_{61}k_{60}k_{57}k_{34}\oplus$$
$$k_{72}k_{71}k_{61}k_{60}k_{57}k_{34} \oplus k_{58}k_{57}k_{34} \oplus k_{73}k_{58}k_{57}k_{34} \oplus k_{72}k_{71}k_{58}k_{57}k_{34}\oplus$$
$$k_{62}k_{58}k_{57}k_{34} \oplus k_{61}k_{60}k_{58}k_{57}k_{34} \oplus k_{55}k_{34} \oplus k_{57}k_{55}k_{34} \oplus k_{57}k_{54}k_{34}\oplus$$
$$k_{74}k_{57}k_{54}k_{34} \oplus k_{73}k_{72}k_{57}k_{54}k_{34} \oplus k_{62}k_{57}k_{54}k_{34} \oplus k_{61}k_{60}k_{57}k_{54}k_{34} \oplus k_{53}k_{34}\oplus$$
$$k_{62}k_{57}k_{53}k_{34} \oplus k_{74}k_{62}k_{57}k_{53}k_{34} \oplus k_{73}k_{72}k_{62}k_{57}k_{53}k_{34} \oplus k_{61}k_{60}k_{57}k_{53}k_{34}\oplus$$
$$k_{74}k_{61}k_{60}k_{57}k_{53}k_{34} \oplus k_{73}k_{72}k_{61}k_{60}k_{57}k_{53}k_{34} \oplus k_{48}k_{34} \oplus k_{57}k_{47}k_{34}\oplus$$
$$k_{79}k_{78}k_{62}k_{57}k_{47}k_{34} \oplus k_{79}k_{78}k_{61}k_{60}k_{57}k_{47}k_{34} \oplus k_{57}k_{54}k_{47}k_{34}\oplus$$
$$k_{62}k_{57}k_{53}k_{47}k_{34} \oplus k_{61}k_{60}k_{57}k_{53}k_{47}k_{34} \oplus k_{71}k_{46}k_{34} \oplus k_{70}k_{69}k_{46}k_{34}\oplus$$
$$k_{59}k_{46}k_{34} \oplus k_{57}k_{46}k_{34} \oplus k_{62}k_{57}k_{46}k_{34} \oplus k_{61}k_{60}k_{57}k_{46}k_{34} \oplus k_{58}k_{57}k_{46}k_{34}\oplus$$
$$k_{58}k_{45}k_{34} \oplus k_{57}k_{45}k_{34} \oplus k_{44}k_{34} \oplus k_{73}k_{44}k_{34} \oplus k_{72}k_{71}k_{44}k_{34} \oplus k_{62}k_{44}k_{34}\oplus$$
$$k_{61}k_{60}k_{44}k_{34} \oplus k_{46}k_{44}k_{34} \oplus k_{35}k_{34} \oplus k_{71}k_{35}k_{34} \oplus k_{70}k_{69}k_{35}k_{34} \oplus k_{59}k_{35}k_{34}\oplus$$
$$k_{57}k_{35}k_{34} \oplus k_{79}k_{78}k_{57}k_{35}k_{34} \oplus k_{79}k_{78}k_{74}k_{57}k_{35}k_{34} \oplus k_{73}k_{57}k_{35}k_{34}\oplus$$
$$k_{79}k_{78}k_{73}k_{72}k_{57}k_{35}k_{34} \oplus k_{72}k_{71}k_{57}k_{35}k_{34} \oplus k_{58}k_{57}k_{35}k_{34} \oplus k_{57}k_{54}k_{35}k_{34}\oplus$$
$$k_{57}k_{53}k_{35}k_{34} \oplus k_{74}k_{57}k_{53}k_{35}k_{34} \oplus k_{73}k_{72}k_{57}k_{53}k_{35}k_{34} \oplus k_{79}k_{78}k_{57}k_{47}k_{35}k_{34}\oplus$$
$$k_{57}k_{53}k_{47}k_{35}k_{34} \oplus k_{57}k_{46}k_{35}k_{34} \oplus k_{44}k_{35}k_{34} \oplus k_{33} \oplus k_{71}k_{33} \oplus k_{70}k_{69}k_{33}\oplus$$
$$k_{71}k_{62}k_{33} \oplus k_{70}k_{69}k_{62}k_{33} \oplus k_{71}k_{61}k_{60}k_{33} \oplus k_{70}k_{69}k_{61}k_{60}k_{33} \oplus k_{59}k_{33}\oplus$$
$$k_{62}k_{59}k_{33} \oplus k_{61}k_{60}k_{59}k_{33} \oplus k_{58}k_{33} \oplus k_{61}k_{58}k_{33} \oplus k_{60}k_{59}k_{58}k_{33} \oplus k_{62}k_{57}k_{33}\oplus$$
$$k_{61}k_{60}k_{57}k_{33} \oplus k_{58}k_{57}k_{33} \oplus k_{62}k_{58}k_{57}k_{33} \oplus k_{61}k_{60}k_{58}k_{57}k_{33} \oplus k_{44}k_{33}\oplus$$
$$k_{62}k_{44}k_{33} \oplus k_{61}k_{60}k_{44}k_{33} \oplus k_{71}k_{35}k_{33} \oplus k_{70}k_{69}k_{35}k_{33} \oplus k_{59}k_{35}k_{33}\oplus$$
$$k_{57}k_{35}k_{33} \oplus k_{58}k_{57}k_{35}k_{33} \oplus k_{44}k_{35}k_{33} \oplus k_{58}k_{34}k_{33} \oplus k_{32} \oplus k_{74}k_{57}k_{32}\oplus$$
$$k_{73}k_{72}k_{57}k_{32} \oplus k_{57}k_{47}k_{32} \oplus k_{32}k_{31} \oplus k_{57}k_{26} \oplus k_{74}k_{57}k_{26} \oplus k_{73}k_{72}k_{57}k_{26}\oplus$$
$$k_{57}k_{47}k_{26} \oplus k_{24} \oplus k_{23} \oplus k_{75}k_{22} \oplus k_{74}k_{73}k_{22} \oplus k_{48}k_{22} \oplus k_{21} \oplus k_{75}k_{21}\oplus$$
$$k_{74}k_{73}k_{21} \oplus k_{71}k_{21} \oplus k_{70}k_{69}k_{21} \oplus k_{59}k_{21} \oplus k_{57}k_{21} \oplus k_{79}k_{78}k_{57}k_{21}\oplus$$

$k_{79}k_{78}k_{74}k_{57}k_{21} \oplus k_{73}k_{57}k_{21} \oplus k_{79}k_{78}k_{73}k_{72}k_{57}k_{21} \oplus k_{72}k_{71}k_{57}k_{21} \oplus$

$k_{58}k_{57}k_{21} \oplus k_{57}k_{54}k_{21} \oplus k_{57}k_{53}k_{21} \oplus k_{74}k_{57}k_{53}k_{21} \oplus k_{73}k_{72}k_{57}k_{53}k_{21} \oplus$

$k_{48}k_{21} \oplus k_{79}k_{78}k_{57}k_{47}k_{21} \oplus k_{57}k_{53}k_{47}k_{21} \oplus k_{57}k_{46}k_{21} \oplus k_{44}k_{21} \oplus k_{79}k_{78}k_{19} \oplus$

$k_{63}k_{19} \oplus k_{62}k_{61}k_{19} \oplus k_{53}k_{19} \oplus k_{36}k_{19} \oplus k_{74}k_{57}k_{17} \oplus k_{73}k_{72}k_{57}k_{17} \oplus$

$k_{62}k_{57}k_{17} \oplus k_{74}k_{62}k_{57}k_{17} \oplus k_{73}k_{72}k_{62}k_{57}k_{17} \oplus k_{61}k_{57}k_{17} \oplus k_{61}k_{60}k_{57}k_{17} \oplus$

$k_{74}k_{61}k_{60}k_{57}k_{17} \oplus k_{73}k_{72}k_{61}k_{60}k_{57}k_{17} \oplus k_{60}k_{59}k_{57}k_{17} \oplus k_{57}k_{47}k_{17} \oplus$

$k_{62}k_{57}k_{47}k_{17} \oplus k_{61}k_{60}k_{57}k_{47}k_{17} \oplus k_{57}k_{35}k_{17} \oplus k_{74}k_{57}k_{35}k_{17} \oplus$

$k_{73}k_{72}k_{57}k_{35}k_{17} \oplus k_{57}k_{47}k_{35}k_{17} \oplus k_{57}k_{34}k_{17} \oplus k_{79}k_{78}k_{18}k_{17} \oplus k_{63}k_{18}k_{17} \oplus$

$k_{62}k_{61}k_{18}k_{17} \oplus k_{53}k_{18}k_{17} \oplus k_{36}k_{18}k_{17} \oplus k_{57}k_{16} \oplus k_{79}k_{78}k_{74}k_{57}k_{16} \oplus$

$k_{79}k_{78}k_{73}k_{72}k_{57}k_{16} \oplus k_{62}k_{57}k_{16} \oplus k_{61}k_{57}k_{16} \oplus k_{61}k_{60}k_{57}k_{16} \oplus k_{60}k_{59}k_{57}k_{16} \oplus$

$k_{74}k_{57}k_{53}k_{16} \oplus k_{73}k_{72}k_{57}k_{53}k_{16} \oplus k_{52}k_{16} \oplus k_{51}k_{16} \oplus k_{50}k_{16} \oplus k_{51}k_{50}k_{16} \oplus$

$k_{50}k_{49}k_{16} \oplus k_{49}k_{48}k_{16} \oplus k_{79}k_{78}k_{57}k_{47}k_{16} \oplus k_{57}k_{53}k_{47}k_{16} \oplus k_{37}k_{16} \oplus$

$k_{57}k_{35}k_{16} \oplus k_{36}k_{35}k_{16} \oplus k_{57}k_{34}k_{16} \oplus k_{25}k_{16} \oplus k_{24}k_{16} \oplus k_{23}k_{16} \oplus k_{15} \oplus$

$k_{77}k_{15} \oplus k_{75}k_{15} \oplus k_{76}k_{74}k_{73}k_{15} \oplus k_{75}k_{74}k_{73}k_{15} \oplus k_{75}k_{73}k_{72}k_{15} \oplus$

$k_{74}k_{73}k_{72}k_{15} \oplus k_{61}k_{15} \oplus k_{60}k_{15} \oplus k_{60}k_{59}k_{15} \oplus k_{58}k_{15} \oplus k_{62}k_{58}k_{15} \oplus$

$k_{61}k_{60}k_{58}k_{15} \oplus k_{59}k_{58}k_{15} \oplus k_{50}k_{15} \oplus k_{75}k_{49}k_{15} \oplus k_{74}k_{73}k_{49}k_{15} \oplus k_{48}k_{15} \oplus$

$k_{76}k_{48}k_{15} \oplus k_{74}k_{48}k_{15} \oplus k_{75}k_{74}k_{48}k_{15} \oplus k_{73}k_{72}k_{48}k_{15} \oplus k_{49}k_{48}k_{15} \oplus$

$k_{75}k_{47}k_{15} \oplus k_{74}k_{73}k_{47}k_{15} \oplus k_{48}k_{47}k_{15} \oplus k_{58}k_{35}k_{15} \oplus k_{34}k_{15} \oplus k_{33}k_{15} \oplus k_{14} \oplus$

$k_{62}k_{58}k_{14} \oplus k_{61}k_{58}k_{14} \oplus k_{61}k_{60}k_{58}k_{14} \oplus k_{60}k_{59}k_{58}k_{14} \oplus k_{57}k_{14} \oplus k_{74}k_{57}k_{14} \oplus$

$k_{73}k_{72}k_{57}k_{14} \oplus k_{57}k_{54}k_{14} \oplus k_{57}k_{47}k_{14} \oplus k_{58}k_{35}k_{14} \oplus k_{58}k_{34}k_{14} \oplus k_{11} \oplus$

$k_{16}k_{10} \oplus \textcolor{red}{k_9} \oplus k_8 \oplus k_{77}k_8 \oplus k_{75}k_{74}k_8 \oplus k_{74}k_{73}k_8 \oplus k_{76}k_{74}k_{73}k_8 \oplus$

$k_{75}k_{74}k_{73}k_8 \oplus k_{73}k_{72}k_8 \oplus k_{74}k_{72}k_{71}k_8 \oplus k_{73}k_{72}k_{71}k_8 \oplus k_{73}k_{61}k_8 \oplus$

$k_{72}k_{71}k_{61}k_8 \oplus k_{60}k_8 \oplus k_{73}k_{60}k_{59}k_8 \oplus k_{72}k_{71}k_{60}k_{59}k_8 \oplus k_{77}k_{58}k_8 \oplus$

$k_{75}k_{74}k_{58}k_8 \oplus k_{76}k_{74}k_{73}k_{58}k_8 \oplus k_{75}k_{74}k_{73}k_{58}k_8 \oplus k_{62}k_{58}k_8 \oplus k_{61}k_{60}k_{58}k_8 \oplus$

$k_{59}k_{58}k_8 \oplus k_{57}k_8 \oplus k_{63}k_{57}k_8 \oplus k_{62}k_{57}k_8 \oplus k_{74}k_{62}k_{57}k_8 \oplus k_{73}k_{72}k_{62}k_{57}k_8 \oplus$

$k_{74}k_{61}k_{57}k_8 \oplus k_{73}k_{72}k_{61}k_{57}k_8 \oplus k_{74}k_{61}k_{60}k_{57}k_8 \oplus k_{73}k_{72}k_{61}k_{60}k_{57}k_8 \oplus$

$k_{60}k_{59}k_{57}k_8 \oplus k_{74}k_{60}k_{59}k_{57}k_8 \oplus k_{73}k_{72}k_{60}k_{59}k_{57}k_8 \oplus k_{62}k_{60}k_{59}k_{57}k_8 \oplus$

$k_{61}k_{60}k_{59}k_{57}k_8 \oplus k_{57}k_{55}k_8 \oplus k_{50}k_8 \oplus k_{58}k_{50}k_8 \oplus k_{75}k_{49}k_8 \oplus k_{74}k_{73}k_{49}k_8 \oplus$

$k_{75}k_{58}k_{49}k_8 \oplus k_{74}k_{73}k_{58}k_{49}k_8 \oplus k_{76}k_{48}k_8 \oplus k_{75}k_{74}k_{48}k_8 \oplus k_{76}k_{58}k_{48}k_8 \oplus$

$k_{75}k_{74}k_{58}k_{48}k_8 \oplus k_{57}k_{48}k_8 \oplus k_{49}k_{48}k_8 \oplus k_{58}k_{49}k_{48}k_8 \oplus k_{73}k_{47}k_8 \oplus$

$k_{72}k_{71}k_{47}k_8 \oplus k_{62}k_{57}k_{47}k_8 \oplus k_{61}k_{57}k_{47}k_8 \oplus k_{61}k_{60}k_{57}k_{47}k_8 \oplus$

$k_{60}k_{59}k_{57}k_{47}k_8 \oplus k_{74}k_{46}k_8 \oplus k_{73}k_{72}k_{46}k_8 \oplus k_{61}k_{46}k_8 \oplus k_{60}k_{59}k_{46}k_8 \oplus$

$k_{47}k_{46}k_8 \oplus k_{57}k_{47}k_{46}k_8 \oplus k_{41}k_8 \oplus k_{58}k_{41}k_8 \oplus k_{57}k_{36}k_8 \oplus k_{58}k_{35}k_8 \oplus$

$k_{57}k_{35}k_8 \oplus k_{74}k_{57}k_{35}k_8 \oplus k_{73}k_{72}k_{57}k_{35}k_8 \oplus k_{61}k_{57}k_{35}k_8 \oplus k_{60}k_{59}k_{57}k_{35}k_8 \oplus$

$k_{57}k_{47}k_{35}k_8 \oplus k_{73}k_{34}k_8 \oplus k_{72}k_{71}k_{34}k_8 \oplus k_{57}k_{34}k_8 \oplus k_{74}k_{57}k_{34}k_8 \oplus$

$k_{73}k_{72}k_{57}k_{34}k_8 \oplus k_{62}k_{57}k_{34}k_8 \oplus k_{61}k_{60}k_{57}k_{34}k_8 \oplus k_{57}k_{47}k_{34}k_8 \oplus k_{46}k_{34}k_8 \oplus$

$k_{57}k_{35}k_{34}k_8 \oplus k_{33}k_8 \oplus k_{57}k_{21}k_8 \oplus k_{57}k_{16}k_8 \oplus k_{63}k_7 \oplus k_{62}k_{61}k_7 \oplus k_{58}k_7 \oplus$
$k_{36}k_7 \oplus k_{76}k_6 \oplus k_{75}k_{74}k_6 \oplus k_{71}k_6 \oplus k_{70}k_{69}k_6 \oplus k_{59}k_6 \oplus k_{58}k_6 \oplus k_{57}k_6 \oplus$
$k_{73}k_{57}k_6 \oplus k_{72}k_{71}k_{57}k_6 \oplus k_{62}k_{57}k_6 \oplus k_{61}k_{57}k_6 \oplus k_{61}k_{60}k_{57}k_6 \oplus k_{60}k_{59}k_{57}k_6 \oplus$
$k_{58}k_{57}k_6 \oplus k_{49}k_6 \oplus k_{57}k_{46}k_6 \oplus k_{44}k_6 \oplus k_{57}k_{35}k_6 \oplus k_{57}k_{34}k_6 \oplus k_{57}k_2$

3 Superpoly p_{I_9}

Taking the cube of dimension 76 as

$$I_6 = \{0, 1, \ldots, 71, 73, 75, 77, 79\}, \quad IV[72] = IV[74] = IV[76] = IV[78] = 0,$$

we recover the superpoly p_{I_9} for 842-Round Trivium that has 5147 terms, and we give it as the following

$p_{I_9} = 1 \oplus k_{78} \oplus k_{79}k_{78} \oplus k_{78}k_{77} \oplus k_{79}k_{78}k_{77} \oplus k_{79}k_{78}k_{77}k_{76} \oplus k_{75} \oplus k_{78}k_{75} \oplus$
$k_{78}k_{76}k_{75} \oplus k_{74} \oplus k_{78}k_{74} \oplus k_{79}k_{78}k_{74} \oplus k_{77}k_{75}k_{74} \oplus k_{73} \oplus k_{79}k_{73} \oplus$
$k_{78}k_{73} \oplus k_{79}k_{78}k_{73} \oplus k_{77}k_{73} \oplus k_{78}k_{77}k_{73} \oplus k_{75}k_{73} \oplus k_{78}k_{74}k_{73} \oplus$
$k_{77}k_{76}k_{74}k_{73} \oplus k_{77}k_{75}k_{74}k_{73} \oplus k_{76}k_{75}k_{74}k_{73} \oplus k_{77}k_{76}k_{72} \oplus k_{76}k_{75}k_{72} \oplus$
$k_{74}k_{72} \oplus k_{77}k_{75}k_{74}k_{72} \oplus k_{76}k_{75}k_{74}k_{72} \oplus k_{73}k_{72} \oplus k_{79}k_{78}k_{73}k_{72} \oplus$
$k_{76}k_{73}k_{72} \oplus k_{75}k_{74}k_{73}k_{72} \oplus k_{71} \oplus k_{78}k_{71} \oplus k_{79}k_{78}k_{71} \oplus k_{77}k_{76}k_{71} \oplus$
$k_{79}k_{72}k_{71} \oplus k_{79}k_{78}k_{72}k_{71} \oplus k_{77}k_{72}k_{71} \oplus k_{78}k_{77}k_{72}k_{71} \oplus k_{75}k_{72}k_{71} \oplus$
$k_{76}k_{75}k_{72}k_{71} \oplus k_{74}k_{73}k_{72}k_{71} \oplus k_{70} \oplus k_{79}k_{78}k_{70} \oplus k_{76}k_{71}k_{70} \oplus$
$k_{77}k_{76}k_{71}k_{70} \oplus k_{76}k_{75}k_{71}k_{70} \oplus k_{74}k_{71}k_{70} \oplus k_{75}k_{74}k_{71}k_{70} \oplus$
$k_{77}k_{75}k_{74}k_{71}k_{70} \oplus k_{76}k_{75}k_{74}k_{71}k_{70} \oplus k_{73}k_{71}k_{70} \oplus k_{78}k_{73}k_{71}k_{70} \oplus$
$k_{76}k_{73}k_{71}k_{70} \oplus k_{76}k_{75}k_{73}k_{71}k_{70} \oplus k_{75}k_{74}k_{73}k_{71}k_{70} \oplus k_{77}k_{75}k_{74}k_{73}k_{71}k_{70} \oplus$
$k_{76}k_{75}k_{74}k_{73}k_{71}k_{70} \oplus k_{72}k_{71}k_{70} \oplus k_{78}k_{72}k_{71}k_{70} \oplus k_{76}k_{72}k_{71}k_{70} \oplus$
$k_{76}k_{75}k_{72}k_{71}k_{70} \oplus k_{75}k_{74}k_{72}k_{71}k_{70} \oplus k_{77}k_{75}k_{74}k_{72}k_{71}k_{70} \oplus$
$k_{76}k_{75}k_{74}k_{72}k_{71}k_{70} \oplus k_{73}k_{72}k_{71}k_{70} \oplus k_{69} \oplus k_{79}k_{78}k_{69} \oplus k_{77}k_{69} \oplus k_{75}k_{69} \oplus$
$k_{76}k_{75}k_{69} \oplus k_{73}k_{69} \oplus k_{72}k_{69} \oplus k_{76}k_{72}k_{69} \oplus k_{75}k_{74}k_{72}k_{69} \oplus k_{73}k_{72}k_{69} \oplus$
$k_{72}k_{71}k_{69} \oplus k_{74}k_{72}k_{71}k_{69} \oplus k_{73}k_{72}k_{71}k_{69} \oplus k_{70}k_{69} \oplus k_{78}k_{70}k_{69} \oplus$
$k_{79}k_{78}k_{70}k_{69} \oplus k_{77}k_{76}k_{70}k_{69} \oplus k_{76}k_{72}k_{70}k_{69} \oplus k_{75}k_{74}k_{72}k_{70}k_{69} \oplus$
$k_{71}k_{70}k_{69} \oplus k_{68} \oplus k_{79}k_{68} \oplus k_{78}k_{77}k_{68} \oplus k_{76}k_{68} \oplus k_{74}k_{68} \oplus k_{75}k_{74}k_{68} \oplus$
$k_{72}k_{68} \oplus k_{73}k_{72}k_{68} \oplus k_{71}k_{70}k_{68} \oplus k_{79}k_{78}k_{69}k_{68} \oplus k_{67} \oplus k_{79}k_{67} \oplus k_{78}k_{67} \oplus$
$k_{78}k_{77}k_{67} \oplus k_{79}k_{78}k_{77}k_{67} \oplus k_{77}k_{76}k_{67} \oplus k_{70}k_{67} \oplus k_{68}k_{67} \oplus k_{79}k_{68}k_{67} \oplus$
$k_{79}k_{78}k_{68}k_{67} \oplus k_{77}k_{68}k_{67} \oplus k_{78}k_{77}k_{68}k_{67} \oplus k_{75}k_{68}k_{67} \oplus k_{76}k_{75}k_{68}k_{67} \oplus$
$k_{73}k_{68}k_{67} \oplus k_{72}k_{68}k_{67} \oplus k_{76}k_{72}k_{68}k_{67} \oplus k_{75}k_{74}k_{72}k_{68}k_{67} \oplus k_{73}k_{72}k_{68}k_{67} \oplus$
$k_{72}k_{71}k_{68}k_{67} \oplus k_{74}k_{72}k_{71}k_{68}k_{67} \oplus k_{73}k_{72}k_{71}k_{68}k_{67} \oplus k_{71}k_{70}k_{68}k_{67} \oplus$
$k_{76}k_{71}k_{70}k_{68}k_{67} \oplus k_{75}k_{74}k_{71}k_{70}k_{68}k_{67} \oplus k_{69}k_{68}k_{67} \oplus k_{66} \oplus k_{79}k_{66} \oplus$
$k_{78}k_{77}k_{66} \oplus k_{79}k_{78}k_{77}k_{66} \oplus k_{75}k_{66} \oplus k_{74}k_{66} \oplus k_{75}k_{74}k_{66} \oplus k_{72}k_{66} \oplus$

$$k_{73}k_{72}k_{66} \oplus k_{75}k_{73}k_{72}k_{66} \oplus k_{74}k_{73}k_{72}k_{66} \oplus k_{71}k_{66} \oplus k_{71}k_{70}k_{66} \oplus k_{69}k_{66} \oplus$$

$$k_{70}k_{69}k_{66} \oplus k_{68}k_{66} \oplus k_{79}k_{68}k_{66} \oplus k_{78}k_{77}k_{68}k_{66} \oplus k_{67}k_{66} \oplus k_{74}k_{67}k_{66} \oplus$$

$$k_{73}k_{72}k_{67}k_{66} \oplus k_{69}k_{67}k_{66} \oplus k_{65} \oplus k_{79}k_{65} \oplus k_{79}k_{78}k_{65} \oplus k_{78}k_{77}k_{65} \oplus$$

$$k_{79}k_{78}k_{77}k_{65} \oplus k_{68}k_{65} \oplus k_{79}k_{68}k_{65} \oplus k_{78}k_{77}k_{68}k_{65} \oplus k_{66}k_{65} \oplus k_{78}k_{66}k_{65} \oplus$$

$$k_{77}k_{76}k_{66}k_{65} \oplus k_{67}k_{66}k_{65} \oplus k_{64} \oplus k_{75}k_{74}k_{64} \oplus k_{75}k_{73}k_{64} \oplus k_{72}k_{64} \oplus$$

$$k_{71}k_{70}k_{64} \oplus k_{75}k_{73}k_{71}k_{70}k_{64} \oplus k_{74}k_{73}k_{71}k_{70}k_{64} \oplus k_{75}k_{72}k_{71}k_{70}k_{64} \oplus$$

$$k_{74}k_{73}k_{72}k_{71}k_{70}k_{64} \oplus k_{67}k_{64} \oplus k_{65}k_{64} \oplus k_{75}k_{65}k_{64} \oplus k_{75}k_{74}k_{65}k_{64} \oplus$$

$$k_{75}k_{73}k_{72}k_{65}k_{64} \oplus k_{74}k_{73}k_{72}k_{65}k_{64} \oplus k_{67}k_{65}k_{64} \oplus k_{77}k_{63} \oplus k_{76}k_{75}k_{63} \oplus$$

$$k_{74}k_{63} \oplus k_{73}k_{63} \oplus k_{72}k_{63} \oplus k_{71}k_{70}k_{63} \oplus k_{73}k_{71}k_{70}k_{63} \oplus k_{72}k_{71}k_{70}k_{63} \oplus$$

$$k_{79}k_{64}k_{63} \oplus k_{79}k_{78}k_{64}k_{63} \oplus k_{78}k_{77}k_{64}k_{63} \oplus k_{79}k_{78}k_{77}k_{64}k_{63} \oplus$$

$$k_{79}k_{68}k_{64}k_{63} \oplus k_{78}k_{77}k_{68}k_{64}k_{63} \oplus k_{66}k_{64}k_{63} \oplus k_{79}k_{66}k_{64}k_{63} \oplus$$

$$k_{78}k_{77}k_{66}k_{64}k_{63} \oplus k_{79}k_{78}k_{77}k_{66}k_{64}k_{63} \oplus k_{68}k_{66}k_{64}k_{63} \oplus k_{79}k_{68}k_{66}k_{64}k_{63} \oplus$$

$$k_{78}k_{77}k_{68}k_{66}k_{64}k_{63} \oplus k_{65}k_{64}k_{63} \oplus k_{79}k_{65}k_{64}k_{63} \oplus k_{78}k_{77}k_{65}k_{64}k_{63} \oplus$$

$$k_{79}k_{78}k_{77}k_{65}k_{64}k_{63} \oplus k_{68}k_{65}k_{64}k_{63} \oplus k_{79}k_{68}k_{65}k_{64}k_{63} \oplus$$

$$k_{78}k_{77}k_{68}k_{65}k_{64}k_{63} \oplus k_{78}k_{62} \oplus k_{77}k_{62} \oplus k_{75}k_{62} \oplus k_{75}k_{74}k_{62} \oplus$$

$$k_{77}k_{75}k_{74}k_{62} \oplus k_{76}k_{75}k_{74}k_{62} \oplus k_{73}k_{62} \oplus k_{75}k_{73}k_{72}k_{62} \oplus k_{74}k_{73}k_{72}k_{62} \oplus$$

$$k_{71}k_{62} \oplus k_{72}k_{71}k_{62} \oplus k_{74}k_{69}k_{62} \oplus k_{73}k_{72}k_{69}k_{62} \oplus k_{70}k_{69}k_{62} \oplus k_{68}k_{62} \oplus$$

$$k_{74}k_{68}k_{67}k_{62} \oplus k_{73}k_{72}k_{68}k_{67}k_{62} \oplus k_{66}k_{62} \oplus k_{74}k_{66}k_{62} \oplus k_{73}k_{72}k_{66}k_{62} \oplus$$

$$k_{74}k_{65}k_{62} \oplus k_{73}k_{72}k_{65}k_{62} \oplus k_{64}k_{62} \oplus k_{63}k_{62} \oplus k_{64}k_{63}k_{62} \oplus k_{74}k_{64}k_{63}k_{62} \oplus$$

$$k_{73}k_{72}k_{64}k_{63}k_{62} \oplus k_{77}k_{61} \oplus k_{78}k_{76}k_{61} \oplus k_{77}k_{76}k_{61} \oplus k_{79}k_{78}k_{77}k_{76}k_{61} \oplus$$

$$k_{75}k_{61} \oplus k_{74}k_{61} \oplus k_{78}k_{75}k_{74}k_{61} \oplus k_{77}k_{76}k_{75}k_{74}k_{61} \oplus k_{79}k_{78}k_{73}k_{61} \oplus$$

$$k_{77}k_{73}k_{61} \oplus k_{78}k_{76}k_{73}k_{61} \oplus k_{77}k_{76}k_{73}k_{61} \oplus k_{75}k_{73}k_{61} \oplus k_{75}k_{74}k_{73}k_{61} \oplus$$

$$k_{78}k_{75}k_{74}k_{73}k_{61} \oplus k_{77}k_{76}k_{75}k_{74}k_{73}k_{61} \oplus k_{75}k_{73}k_{72}k_{61} \oplus k_{74}k_{73}k_{72}k_{61} \oplus$$

$$k_{72}k_{71}k_{61} \oplus k_{79}k_{78}k_{72}k_{71}k_{61} \oplus k_{77}k_{72}k_{71}k_{61} \oplus k_{78}k_{76}k_{72}k_{71}k_{61} \oplus$$

$$k_{77}k_{76}k_{72}k_{71}k_{61} \oplus k_{75}k_{72}k_{71}k_{61} \oplus k_{74}k_{72}k_{71}k_{61} \oplus k_{75}k_{74}k_{72}k_{71}k_{61} \oplus$$

$$k_{78}k_{75}k_{74}k_{72}k_{71}k_{61} \oplus k_{77}k_{76}k_{75}k_{74}k_{72}k_{71}k_{61} \oplus k_{73}k_{72}k_{71}k_{61} \oplus$$

$$k_{74}k_{73}k_{72}k_{71}k_{61} \oplus k_{76}k_{74}k_{73}k_{72}k_{71}k_{61} \oplus k_{75}k_{74}k_{73}k_{72}k_{71}k_{61} \oplus k_{71}k_{70}k_{61} \oplus$$

$$k_{69}k_{61} \oplus k_{72}k_{70}k_{69}k_{61} \oplus k_{71}k_{70}k_{69}k_{61} \oplus k_{68}k_{61} \oplus k_{68}k_{67}k_{61} \oplus k_{66}k_{61} \oplus$$

$$k_{64}k_{61} \oplus k_{79}k_{64}k_{61} \oplus k_{78}k_{77}k_{64}k_{61} \oplus k_{75}k_{64}k_{61} \oplus k_{73}k_{64}k_{61} \oplus$$

$$k_{74}k_{73}k_{64}k_{61} \oplus k_{72}k_{71}k_{64}k_{61} \oplus k_{62}k_{61} \oplus k_{77}k_{62}k_{61} \oplus k_{75}k_{62}k_{61} \oplus$$

$$k_{76}k_{75}k_{62}k_{61} \oplus k_{74}k_{62}k_{61} \oplus k_{75}k_{74}k_{62}k_{61} \oplus k_{72}k_{62}k_{61} \oplus k_{75}k_{73}k_{72}k_{62}k_{61} \oplus$$

$$k_{74}k_{73}k_{72}k_{62}k_{61} \oplus k_{72}k_{71}k_{62}k_{61} \oplus k_{71}k_{70}k_{62}k_{61} \oplus k_{73}k_{71}k_{70}k_{62}k_{61} \oplus$$

$$k_{72}k_{71}k_{70}k_{62}k_{61} \oplus k_{66}k_{64}k_{62}k_{61} \oplus k_{65}k_{64}k_{62}k_{61} \oplus k_{63}k_{62}k_{61} \oplus k_{79}k_{60} \oplus$$

$$k_{78}k_{77}k_{60} \oplus k_{78}k_{76}k_{60} \oplus k_{79}k_{75}k_{60} \oplus k_{78}k_{77}k_{75}k_{60} \oplus k_{76}k_{75}k_{60} \oplus k_{74}k_{60} \oplus$$

$$k_{78}k_{75}k_{74}k_{60} \oplus k_{77}k_{75}k_{74}k_{60} \oplus k_{76}k_{75}k_{74}k_{60} \oplus k_{77}k_{76}k_{75}k_{74}k_{60} \oplus$$

$$k_{78}k_{73}k_{60} \oplus k_{79}k_{78}k_{73}k_{60} \oplus k_{77}k_{76}k_{73}k_{60} \oplus k_{74}k_{73}k_{60} \oplus k_{79}k_{74}k_{73}k_{60} \oplus$$

$k_{78}k_{77}k_{74}k_{73}k_{60} \oplus k_{72}k_{60} \oplus k_{73}k_{72}k_{60} \oplus k_{72}k_{71}k_{60} \oplus k_{78}k_{72}k_{71}k_{60}\oplus$

$k_{79}k_{78}k_{72}k_{71}k_{60} \oplus k_{77}k_{76}k_{72}k_{71}k_{60} \oplus k_{74}k_{72}k_{71}k_{60} \oplus k_{73}k_{72}k_{71}k_{60}\oplus$

$k_{71}k_{70}k_{60} \oplus k_{73}k_{71}k_{70}k_{60} \oplus k_{72}k_{71}k_{70}k_{60} \oplus k_{69}k_{60} \oplus k_{79}k_{78}k_{69}k_{60}\oplus$

$k_{75}k_{69}k_{60} \oplus k_{74}k_{73}k_{69}k_{60} \oplus k_{70}k_{69}k_{60} \oplus k_{68}k_{60} \oplus k_{69}k_{68}k_{60} \oplus k_{69}k_{67}k_{60}\oplus$

$k_{79}k_{78}k_{68}k_{67}k_{60} \oplus k_{75}k_{68}k_{67}k_{60} \oplus k_{74}k_{73}k_{68}k_{67}k_{60} \oplus k_{70}k_{68}k_{67}k_{60}\oplus$

$k_{69}k_{68}k_{67}k_{60} \oplus k_{66}k_{60} \oplus k_{77}k_{66}k_{60} \oplus k_{75}k_{66}k_{60} \oplus k_{76}k_{75}k_{66}k_{60}\oplus$

$k_{74}k_{73}k_{66}k_{60} \oplus k_{66}k_{65}k_{60} \oplus k_{69}k_{66}k_{65}k_{60} \oplus k_{68}k_{67}k_{66}k_{65}k_{60} \oplus k_{64}k_{60}\oplus$

$k_{79}k_{64}k_{60} \oplus k_{77}k_{64}k_{60} \oplus k_{78}k_{77}k_{64}k_{60} \oplus k_{76}k_{64}k_{60} \oplus k_{75}k_{64}k_{60}\oplus$

$k_{76}k_{75}k_{64}k_{60} \oplus k_{75}k_{74}k_{64}k_{60} \oplus k_{73}k_{64}k_{60} \oplus k_{74}k_{73}k_{64}k_{60} \oplus k_{72}k_{71}k_{64}k_{60}\oplus$

$k_{69}k_{64}k_{60} \oplus k_{68}k_{67}k_{64}k_{60} \oplus k_{66}k_{64}k_{60} \oplus k_{77}k_{65}k_{64}k_{60} \oplus k_{76}k_{75}k_{65}k_{64}k_{60}\oplus$

$k_{63}k_{60} \oplus k_{69}k_{62}k_{60} \oplus k_{68}k_{67}k_{62}k_{60} \oplus k_{66}k_{62}k_{60} \oplus k_{61}k_{60} \oplus k_{77}k_{61}k_{60}\oplus$

$k_{76}k_{61}k_{60} \oplus k_{77}k_{76}k_{61}k_{60} \oplus k_{75}k_{61}k_{60} \oplus k_{74}k_{61}k_{60} \oplus k_{75}k_{74}k_{61}k_{60}\oplus$

$k_{77}k_{75}k_{74}k_{61}k_{60} \oplus k_{76}k_{75}k_{74}k_{61}k_{60} \oplus k_{73}k_{61}k_{60} \oplus k_{74}k_{73}k_{61}k_{60}\oplus$

$k_{73}k_{72}k_{61}k_{60} \oplus k_{71}k_{61}k_{60} \oplus k_{72}k_{71}k_{61}k_{60} \oplus k_{70}k_{69}k_{61}k_{60} \oplus k_{68}k_{61}k_{60}\oplus$

$k_{64}k_{61}k_{60} \oplus k_{63}k_{61}k_{60} \oplus k_{62}k_{61}k_{60} \oplus k_{74}k_{62}k_{61}k_{60} \oplus k_{73}k_{72}k_{62}k_{61}k_{60}\oplus$

$k_{59} \oplus k_{78}k_{59} \oplus k_{79}k_{78}k_{59} \oplus k_{76}k_{59} \oplus k_{76}k_{75}k_{59} \oplus k_{75}k_{74}k_{59}\oplus$

$k_{77}k_{75}k_{74}k_{59} \oplus k_{76}k_{75}k_{74}k_{59} \oplus k_{66}k_{59} \oplus k_{64}k_{59} \oplus k_{79}k_{64}k_{59}\oplus$

$k_{78}k_{77}k_{64}k_{59} \oplus k_{73}k_{64}k_{59} \oplus k_{72}k_{71}k_{64}k_{59} \oplus k_{63}k_{59} \oplus k_{62}k_{61}k_{59}\oplus$

$k_{77}k_{60}k_{59} \oplus k_{78}k_{76}k_{60}k_{59} \oplus k_{77}k_{76}k_{60}k_{59} \oplus k_{79}k_{78}k_{77}k_{76}k_{60}k_{59}\oplus$

$k_{74}k_{60}k_{59} \oplus k_{78}k_{75}k_{74}k_{60}k_{59} \oplus k_{77}k_{76}k_{75}k_{74}k_{60}k_{59} \oplus k_{79}k_{78}k_{73}k_{60}k_{59}\oplus$

$k_{77}k_{73}k_{60}k_{59} \oplus k_{78}k_{76}k_{73}k_{60}k_{59} \oplus k_{77}k_{76}k_{73}k_{60}k_{59} \oplus k_{75}k_{73}k_{60}k_{59}\oplus$

$k_{74}k_{73}k_{60}k_{59} \oplus k_{75}k_{74}k_{73}k_{60}k_{59} \oplus k_{78}k_{75}k_{74}k_{73}k_{60}k_{59}\oplus$

$k_{77}k_{76}k_{75}k_{74}k_{73}k_{60}k_{59} \oplus k_{75}k_{73}k_{72}k_{60}k_{59} \oplus k_{74}k_{73}k_{72}k_{60}k_{59} \oplus k_{71}k_{60}k_{59}\oplus$

$k_{72}k_{71}k_{60}k_{59} \oplus k_{79}k_{78}k_{72}k_{71}k_{60}k_{59} \oplus k_{77}k_{72}k_{71}k_{60}k_{59}\oplus$

$k_{78}k_{76}k_{72}k_{71}k_{60}k_{59} \oplus k_{77}k_{76}k_{72}k_{71}k_{60}k_{59} \oplus k_{75}k_{72}k_{71}k_{60}k_{59}\oplus$

$k_{74}k_{72}k_{71}k_{60}k_{59} \oplus k_{75}k_{74}k_{72}k_{71}k_{60}k_{59} \oplus k_{78}k_{75}k_{74}k_{72}k_{71}k_{60}k_{59}\oplus$

$k_{77}k_{76}k_{75}k_{74}k_{72}k_{71}k_{60}k_{59} \oplus k_{73}k_{72}k_{71}k_{60}k_{59} \oplus k_{74}k_{73}k_{72}k_{71}k_{60}k_{59}\oplus$

$k_{76}k_{74}k_{73}k_{72}k_{71}k_{60}k_{59} \oplus k_{75}k_{74}k_{73}k_{72}k_{71}k_{60}k_{59} \oplus k_{71}k_{70}k_{60}k_{59}\oplus$

$k_{70}k_{69}k_{60}k_{59} \oplus k_{72}k_{70}k_{69}k_{60}k_{59} \oplus k_{71}k_{70}k_{69}k_{60}k_{59} \oplus k_{68}k_{60}k_{59}\oplus$

$k_{73}k_{64}k_{60}k_{59} \oplus k_{72}k_{71}k_{64}k_{60}k_{59} \oplus k_{62}k_{60}k_{59} \oplus k_{75}k_{62}k_{60}k_{59}\oplus$

$k_{75}k_{74}k_{62}k_{60}k_{59} \oplus k_{73}k_{62}k_{60}k_{59} \oplus k_{75}k_{73}k_{72}k_{62}k_{60}k_{59}\oplus$

$k_{74}k_{73}k_{72}k_{62}k_{60}k_{59} \oplus k_{72}k_{71}k_{62}k_{60}k_{59} \oplus k_{73}k_{61}k_{60}k_{59} \oplus k_{72}k_{71}k_{61}k_{60}k_{59}\oplus$

$k_{77}k_{58} \oplus k_{76}k_{58} \oplus k_{76}k_{75}k_{58} \oplus k_{74}k_{58} \oplus k_{79}k_{74}k_{58} \oplus k_{78}k_{74}k_{58}\oplus$

$k_{78}k_{77}k_{74}k_{58} \oplus k_{77}k_{76}k_{74}k_{58} \oplus k_{75}k_{74}k_{58} \oplus k_{74}k_{72}k_{58} \oplus k_{73}k_{72}k_{58}\oplus$

$k_{79}k_{73}k_{72}k_{58} \oplus k_{78}k_{73}k_{72}k_{58} \oplus k_{78}k_{77}k_{73}k_{72}k_{58} \oplus k_{77}k_{76}k_{73}k_{72}k_{58}\oplus$

$k_{71}k_{58} \oplus k_{72}k_{71}k_{58} \oplus k_{74}k_{71}k_{70}k_{58} \oplus k_{73}k_{71}k_{70}k_{58} \oplus k_{72}k_{71}k_{70}k_{58}\oplus$

$$k_{73}k_{72}k_{71}k_{70}k_{58} \oplus k_{70}k_{69}k_{58} \oplus k_{64}k_{58} \oplus k_{79}k_{64}k_{58} \oplus k_{77}k_{64}k_{58}\oplus$$

$$k_{78}k_{77}k_{64}k_{58} \oplus k_{75}k_{64}k_{58} \oplus k_{76}k_{75}k_{64}k_{58} \oplus k_{74}k_{73}k_{64}k_{58} \oplus k_{64}k_{63}k_{58}\oplus$$

$$k_{76}k_{62}k_{58} \oplus k_{75}k_{74}k_{62}k_{58} \oplus k_{61}k_{58} \oplus k_{78}k_{61}k_{58} \oplus k_{77}k_{76}k_{61}k_{58}\oplus$$

$$k_{74}k_{61}k_{58} \oplus k_{73}k_{61}k_{58} \oplus k_{73}k_{72}k_{61}k_{58} \oplus k_{72}k_{71}k_{61}k_{58} \oplus k_{64}k_{61}k_{58}\oplus$$

$$k_{79}k_{64}k_{61}k_{58} \oplus k_{78}k_{77}k_{64}k_{61}k_{58} \oplus k_{75}k_{64}k_{61}k_{58} \oplus k_{74}k_{73}k_{64}k_{61}k_{58}\oplus$$

$$k_{77}k_{76}k_{60}k_{58} \oplus k_{75}k_{60}k_{58} \oplus k_{74}k_{60}k_{58} \oplus k_{75}k_{74}k_{60}k_{58} \oplus k_{77}k_{75}k_{74}k_{60}k_{58}\oplus$$

$$k_{76}k_{75}k_{74}k_{60}k_{58} \oplus k_{73}k_{60}k_{58} \oplus k_{74}k_{73}k_{60}k_{58} \oplus k_{76}k_{74}k_{73}k_{60}k_{58}\oplus$$

$$k_{75}k_{74}k_{73}k_{60}k_{58} \oplus k_{72}k_{60}k_{58} \oplus k_{73}k_{72}k_{60}k_{58} \oplus k_{72}k_{71}k_{60}k_{58} \oplus k_{70}k_{60}k_{58}\oplus$$

$$k_{71}k_{70}k_{60}k_{58} \oplus k_{69}k_{68}k_{60}k_{58} \oplus k_{64}k_{60}k_{58} \oplus k_{79}k_{64}k_{60}k_{58}\oplus$$

$$k_{78}k_{77}k_{64}k_{60}k_{58} \oplus k_{75}k_{64}k_{60}k_{58} \oplus k_{74}k_{73}k_{64}k_{60}k_{58} \oplus k_{63}k_{60}k_{58}\oplus$$

$$k_{62}k_{61}k_{60}k_{58} \oplus k_{59}k_{58} \oplus k_{79}k_{59}k_{58} \oplus k_{78}k_{77}k_{59}k_{58} \oplus k_{76}k_{59}k_{58}\oplus$$

$$k_{78}k_{76}k_{59}k_{58} \oplus k_{77}k_{76}k_{59}k_{58} \oplus k_{75}k_{74}k_{59}k_{58} \oplus k_{78}k_{75}k_{74}k_{59}k_{58}\oplus$$

$$k_{77}k_{76}k_{75}k_{74}k_{59}k_{58} \oplus k_{73}k_{59}k_{58} \oplus k_{78}k_{73}k_{59}k_{58} \oplus k_{79}k_{78}k_{73}k_{59}k_{58}\oplus$$

$$k_{77}k_{76}k_{73}k_{59}k_{58} \oplus k_{74}k_{73}k_{59}k_{58} \oplus k_{78}k_{72}k_{71}k_{59}k_{58} \oplus k_{79}k_{78}k_{72}k_{71}k_{59}k_{58}\oplus$$

$$k_{77}k_{76}k_{72}k_{71}k_{59}k_{58} \oplus k_{74}k_{72}k_{71}k_{59}k_{58} \oplus k_{73}k_{72}k_{71}k_{59}k_{58}\oplus$$

$$k_{73}k_{71}k_{70}k_{59}k_{58} \oplus k_{72}k_{71}k_{70}k_{59}k_{58} \oplus k_{68}k_{59}k_{58} \oplus k_{79}k_{64}k_{59}k_{58}\oplus$$

$$k_{78}k_{77}k_{64}k_{59}k_{58} \oplus k_{75}k_{64}k_{59}k_{58} \oplus k_{73}k_{64}k_{59}k_{58} \oplus k_{74}k_{73}k_{64}k_{59}k_{58}\oplus$$

$$k_{72}k_{71}k_{64}k_{59}k_{58} \oplus k_{62}k_{59}k_{58} \oplus k_{78}k_{61}k_{59}k_{58} \oplus k_{77}k_{76}k_{61}k_{59}k_{58}\oplus$$

$$k_{74}k_{61}k_{59}k_{58} \oplus k_{73}k_{61}k_{59}k_{58} \oplus k_{73}k_{72}k_{61}k_{59}k_{58} \oplus k_{72}k_{71}k_{61}k_{59}k_{58}\oplus$$

$$k_{64}k_{61}k_{59}k_{58} \oplus k_{60}k_{59}k_{58} \oplus k_{78}k_{60}k_{59}k_{58} \oplus k_{77}k_{76}k_{60}k_{59}k_{58}\oplus$$

$$k_{74}k_{60}k_{59}k_{58} \oplus k_{73}k_{60}k_{59}k_{58} \oplus k_{73}k_{72}k_{60}k_{59}k_{58} \oplus k_{72}k_{71}k_{60}k_{59}k_{58}\oplus$$

$$k_{64}k_{60}k_{59}k_{58} \oplus k_{61}k_{60}k_{59}k_{58} \oplus k_{57} \oplus k_{79}k_{57} \oplus k_{78}k_{57} \oplus k_{79}k_{78}k_{57}\oplus$$

$$k_{77}k_{57} \oplus k_{78}k_{77}k_{57} \oplus k_{79}k_{74}k_{57} \oplus k_{78}k_{77}k_{74}k_{57} \oplus k_{76}k_{74}k_{57}\oplus$$

$$k_{77}k_{75}k_{74}k_{57} \oplus k_{76}k_{75}k_{74}k_{57} \oplus k_{76}k_{73}k_{57} \oplus k_{75}k_{74}k_{73}k_{57} \oplus k_{72}k_{57}\oplus$$

$$k_{76}k_{72}k_{57} \oplus k_{75}k_{74}k_{72}k_{57} \oplus k_{73}k_{72}k_{57} \oplus k_{79}k_{73}k_{72}k_{57} \oplus k_{78}k_{77}k_{73}k_{72}k_{57}\oplus$$

$$k_{76}k_{73}k_{72}k_{57} \oplus k_{75}k_{73}k_{72}k_{57} \oplus k_{74}k_{73}k_{72}k_{57} \oplus k_{75}k_{74}k_{73}k_{72}k_{57} \oplus k_{71}k_{57}\oplus$$

$$k_{76}k_{72}k_{71}k_{57} \oplus k_{74}k_{72}k_{71}k_{57} \oplus k_{75}k_{74}k_{72}k_{71}k_{57} \oplus k_{73}k_{72}k_{71}k_{57}\oplus$$

$$k_{71}k_{70}k_{57} \oplus k_{76}k_{71}k_{70}k_{57} \oplus k_{75}k_{74}k_{71}k_{70}k_{57} \oplus k_{70}k_{69}k_{57} \oplus k_{67}k_{57}\oplus$$

$$k_{66}k_{57} \oplus k_{77}k_{64}k_{57} \oplus k_{76}k_{75}k_{64}k_{57} \oplus k_{63}k_{57} \oplus k_{66}k_{64}k_{63}k_{57}\oplus$$

$$k_{65}k_{64}k_{63}k_{57} \oplus k_{74}k_{62}k_{57} \oplus k_{73}k_{72}k_{62}k_{57} \oplus k_{64}k_{62}k_{57} \oplus k_{61}k_{57}\oplus$$

$$k_{75}k_{61}k_{57} \oplus k_{74}k_{61}k_{57} \oplus k_{74}k_{73}k_{61}k_{57} \oplus k_{73}k_{72}k_{61}k_{57} \oplus k_{62}k_{61}k_{57}\oplus$$

$$k_{60}k_{57} \oplus k_{74}k_{60}k_{57} \oplus k_{73}k_{72}k_{60}k_{57} \oplus k_{64}k_{60}k_{57} \oplus k_{62}k_{60}k_{57} \oplus k_{61}k_{60}k_{57}\oplus$$

$$k_{64}k_{61}k_{60}k_{57} \oplus k_{59}k_{57} \oplus k_{60}k_{59}k_{57} \oplus k_{75}k_{60}k_{59}k_{57} \oplus k_{74}k_{60}k_{59}k_{57}\oplus$$

$$k_{74}k_{73}k_{60}k_{59}k_{57} \oplus k_{73}k_{72}k_{60}k_{59}k_{57} \oplus k_{77}k_{76}k_{58}k_{57} \oplus k_{76}k_{75}k_{58}k_{57}\oplus$$

$$k_{74}k_{58}k_{57} \oplus k_{77}k_{75}k_{74}k_{58}k_{57} \oplus k_{76}k_{75}k_{74}k_{58}k_{57} \oplus k_{73}k_{58}k_{57}\oplus$$

$$k_{73}k_{72}k_{58}k_{57} \oplus k_{72}k_{71}k_{58}k_{57} \oplus k_{66}k_{58}k_{57} \oplus k_{75}k_{64}k_{58}k_{57} \oplus k_{73}k_{64}k_{58}k_{57}\oplus$$

$k_{74}k_{73}k_{64}k_{58}k_{57} \oplus k_{72}k_{71}k_{64}k_{58}k_{57} \oplus k_{63}k_{58}k_{57} \oplus k_{61}k_{58}k_{57}\oplus$

$k_{62}k_{61}k_{58}k_{57} \oplus k_{71}k_{60}k_{58}k_{57} \oplus k_{70}k_{69}k_{60}k_{58}k_{57} \oplus k_{66}k_{60}k_{58}k_{57}\oplus$

$k_{64}k_{60}k_{58}k_{57} \oplus k_{75}k_{59}k_{58}k_{57} \oplus k_{74}k_{59}k_{58}k_{57} \oplus k_{74}k_{73}k_{59}k_{58}k_{57}\oplus$

$k_{73}k_{72}k_{59}k_{58}k_{57} \oplus k_{71}k_{59}k_{58}k_{57} \oplus k_{70}k_{69}k_{59}k_{58}k_{57} \oplus k_{66}k_{59}k_{58}k_{57}\oplus$

$k_{64}k_{59}k_{58}k_{57} \oplus k_{61}k_{59}k_{58}k_{57} \oplus k_{60}k_{59}k_{58}k_{57} \oplus k_{56} \oplus k_{78}k_{56} \oplus k_{79}k_{78}k_{56}\oplus$

$k_{77}k_{56} \oplus k_{76}k_{75}k_{56} \oplus k_{74}k_{56} \oplus k_{78}k_{74}k_{56} \oplus k_{79}k_{78}k_{74}k_{56} \oplus k_{77}k_{74}k_{56}\oplus$

$k_{77}k_{76}k_{74}k_{56} \oplus k_{77}k_{75}k_{74}k_{56} \oplus k_{73}k_{56} \oplus k_{76}k_{73}k_{56} \oplus k_{76}k_{75}k_{73}k_{56}\oplus$

$k_{78}k_{72}k_{56} \oplus k_{77}k_{72}k_{56} \oplus k_{79}k_{78}k_{76}k_{72}k_{56} \oplus k_{77}k_{76}k_{72}k_{56} \oplus k_{75}k_{74}k_{72}k_{56}\oplus$

$k_{79}k_{78}k_{75}k_{74}k_{72}k_{56} \oplus k_{73}k_{72}k_{56} \oplus k_{78}k_{73}k_{72}k_{56} \oplus k_{79}k_{78}k_{73}k_{72}k_{56}\oplus$

$k_{77}k_{76}k_{73}k_{72}k_{56} \oplus k_{75}k_{73}k_{72}k_{56} \oplus k_{74}k_{73}k_{72}k_{56} \oplus k_{76}k_{74}k_{73}k_{72}k_{56}\oplus$

$k_{75}k_{74}k_{73}k_{72}k_{56} \oplus k_{71}k_{56} \oplus k_{77}k_{72}k_{71}k_{56} \oplus k_{76}k_{72}k_{71}k_{56} \oplus k_{74}k_{72}k_{71}k_{56}\oplus$

$k_{73}k_{72}k_{71}k_{56} \oplus k_{76}k_{74}k_{73}k_{72}k_{71}k_{56} \oplus k_{75}k_{74}k_{73}k_{72}k_{71}k_{56} \oplus k_{78}k_{71}k_{70}k_{56}\oplus$

$k_{77}k_{71}k_{70}k_{56} \oplus k_{79}k_{78}k_{76}k_{71}k_{70}k_{56} \oplus k_{77}k_{76}k_{71}k_{70}k_{56} \oplus k_{75}k_{74}k_{71}k_{70}k_{56}\oplus$

$k_{79}k_{78}k_{75}k_{74}k_{71}k_{70}k_{56} \oplus k_{73}k_{71}k_{70}k_{56} \oplus k_{77}k_{73}k_{71}k_{70}k_{56}\oplus$

$k_{76}k_{75}k_{73}k_{71}k_{70}k_{56} \oplus k_{76}k_{74}k_{73}k_{71}k_{70}k_{56} \oplus k_{75}k_{74}k_{73}k_{71}k_{70}k_{56}\oplus$

$k_{72}k_{71}k_{70}k_{56} \oplus k_{77}k_{72}k_{71}k_{70}k_{56} \oplus k_{76}k_{75}k_{72}k_{71}k_{70}k_{56} \oplus k_{69}k_{56}\oplus$

$k_{70}k_{69}k_{56} \oplus k_{68}k_{56} \oplus k_{67}k_{56} \oplus k_{68}k_{67}k_{56} \oplus k_{70}k_{66}k_{56} \oplus k_{69}k_{68}k_{66}k_{56}\oplus$

$k_{65}k_{56} \oplus k_{68}k_{65}k_{56} \oplus k_{66}k_{65}k_{56} \oplus k_{67}k_{66}k_{65}k_{56} \oplus k_{74}k_{64}k_{56} \oplus k_{72}k_{64}k_{56}\oplus$

$k_{73}k_{72}k_{64}k_{56} \oplus k_{71}k_{70}k_{64}k_{56} \oplus k_{63}k_{56} \oplus k_{78}k_{62}k_{56} \oplus k_{77}k_{76}k_{62}k_{56}\oplus$

$k_{74}k_{62}k_{56} \oplus k_{73}k_{62}k_{56} \oplus k_{72}k_{62}k_{56} \oplus k_{73}k_{72}k_{62}k_{56} \oplus k_{72}k_{71}k_{62}k_{56}\oplus$

$k_{71}k_{70}k_{62}k_{56} \oplus k_{78}k_{61}k_{56} \oplus k_{77}k_{76}k_{61}k_{56} \oplus k_{73}k_{61}k_{56} \oplus k_{78}k_{73}k_{61}k_{56}\oplus$

$k_{77}k_{76}k_{73}k_{61}k_{56} \oplus k_{72}k_{71}k_{61}k_{56} \oplus k_{78}k_{72}k_{71}k_{61}k_{56} \oplus k_{77}k_{76}k_{72}k_{71}k_{61}k_{56}\oplus$

$k_{64}k_{61}k_{56} \oplus k_{73}k_{64}k_{61}k_{56} \oplus k_{72}k_{71}k_{64}k_{61}k_{56} \oplus k_{62}k_{61}k_{56} \oplus k_{60}k_{56}\oplus$

$k_{78}k_{60}k_{56} \oplus k_{79}k_{78}k_{60}k_{56} \oplus k_{77}k_{76}k_{60}k_{56} \oplus k_{75}k_{60}k_{56} \oplus k_{74}k_{60}k_{56}\oplus$

$k_{73}k_{60}k_{56} \oplus k_{78}k_{73}k_{60}k_{56} \oplus k_{79}k_{78}k_{73}k_{60}k_{56} \oplus k_{77}k_{76}k_{73}k_{60}k_{56}\oplus$

$k_{74}k_{73}k_{60}k_{56} \oplus k_{72}k_{60}k_{56} \oplus k_{73}k_{72}k_{60}k_{56} \oplus k_{72}k_{71}k_{60}k_{56}\oplus$

$k_{78}k_{72}k_{71}k_{60}k_{56} \oplus k_{79}k_{78}k_{72}k_{71}k_{60}k_{56} \oplus k_{77}k_{76}k_{72}k_{71}k_{60}k_{56} \oplus k_{70}k_{60}k_{56}\oplus$

$k_{71}k_{70}k_{60}k_{56} \oplus k_{69}k_{68}k_{60}k_{56} \oplus k_{65}k_{60}k_{56} \oplus k_{73}k_{64}k_{60}k_{56}\oplus$

$k_{72}k_{71}k_{64}k_{60}k_{56} \oplus k_{62}k_{60}k_{56} \oplus k_{61}k_{60}k_{56} \oplus k_{73}k_{61}k_{60}k_{56} \oplus k_{72}k_{61}k_{60}k_{56}\oplus$

$k_{72}k_{71}k_{61}k_{60}k_{56} \oplus k_{71}k_{70}k_{61}k_{60}k_{56} \oplus k_{64}k_{61}k_{60}k_{56} \oplus k_{77}k_{59}k_{56}\oplus$

$k_{76}k_{75}k_{59}k_{56} \oplus k_{73}k_{60}k_{59}k_{56} \oplus k_{78}k_{73}k_{60}k_{59}k_{56} \oplus k_{77}k_{76}k_{73}k_{60}k_{59}k_{56}\oplus$

$k_{72}k_{71}k_{60}k_{59}k_{56} \oplus k_{78}k_{72}k_{71}k_{60}k_{59}k_{56} \oplus k_{77}k_{76}k_{72}k_{71}k_{60}k_{59}k_{56}\oplus$

$k_{73}k_{64}k_{60}k_{59}k_{56} \oplus k_{72}k_{71}k_{64}k_{60}k_{59}k_{56} \oplus k_{65}k_{58}k_{56} \oplus k_{78}k_{59}k_{58}k_{56}\oplus$

$k_{77}k_{76}k_{59}k_{58}k_{56} \oplus k_{74}k_{59}k_{58}k_{56} \oplus k_{78}k_{73}k_{59}k_{58}k_{56} \oplus k_{77}k_{76}k_{73}k_{59}k_{58}k_{56}\oplus$

$k_{72}k_{59}k_{58}k_{56} \oplus k_{73}k_{72}k_{59}k_{58}k_{56} \oplus k_{78}k_{72}k_{71}k_{59}k_{58}k_{56}\oplus$

$k_{77}k_{76}k_{72}k_{71}k_{59}k_{58}k_{56} \oplus k_{71}k_{70}k_{59}k_{58}k_{56} \oplus k_{64}k_{59}k_{58}k_{56}\oplus$

$$k_{73}k_{64}k_{59}k_{58}k_{56} \oplus k_{72}k_{71}k_{64}k_{59}k_{58}k_{56} \oplus k_{61}k_{59}k_{58}k_{56} \oplus k_{78}k_{61}k_{59}k_{58}k_{56} \oplus$$
$$k_{77}k_{76}k_{61}k_{59}k_{58}k_{56} \oplus k_{64}k_{61}k_{59}k_{58}k_{56} \oplus k_{60}k_{59}k_{58}k_{56} \oplus k_{78}k_{60}k_{59}k_{58}k_{56} \oplus$$
$$k_{77}k_{76}k_{60}k_{59}k_{58}k_{56} \oplus k_{64}k_{60}k_{59}k_{58}k_{56} \oplus k_{76}k_{57}k_{56} \oplus k_{75}k_{74}k_{57}k_{56} \oplus$$
$$k_{61}k_{57}k_{56} \oplus k_{60}k_{57}k_{56} \oplus k_{70}k_{60}k_{57}k_{56} \oplus k_{69}k_{68}k_{60}k_{57}k_{56} \oplus k_{60}k_{59}k_{57}k_{56} \oplus$$
$$k_{58}k_{57}k_{56} \oplus k_{77}k_{58}k_{57}k_{56} \oplus k_{76}k_{75}k_{58}k_{57}k_{56} \oplus k_{60}k_{58}k_{57}k_{56} \oplus$$
$$k_{59}k_{58}k_{57}k_{56} \oplus k_{55} \oplus k_{79}k_{55} \oplus k_{78}k_{55} \oplus k_{79}k_{78}k_{55} \oplus k_{78}k_{77}k_{55} \oplus$$
$$k_{76}k_{75}k_{55} \oplus k_{77}k_{75}k_{74}k_{55} \oplus k_{76}k_{75}k_{74}k_{55} \oplus k_{73}k_{55} \oplus k_{72}k_{55} \oplus k_{73}k_{72}k_{55} \oplus$$
$$k_{70}k_{55} \oplus k_{71}k_{70}k_{55} \oplus k_{73}k_{71}k_{70}k_{55} \oplus k_{72}k_{71}k_{70}k_{55} \oplus k_{69}k_{55} \oplus k_{69}k_{68}k_{55} \oplus$$
$$k_{68}k_{67}k_{55} \oplus k_{65}k_{55} \oplus k_{69}k_{65}k_{55} \oplus k_{68}k_{67}k_{65}k_{55} \oplus k_{64}k_{55} \oplus k_{63}k_{55} \oplus$$
$$k_{74}k_{62}k_{55} \oplus k_{73}k_{72}k_{62}k_{55} \oplus k_{72}k_{61}k_{55} \oplus k_{71}k_{61}k_{55} \oplus k_{71}k_{70}k_{61}k_{55} \oplus$$
$$k_{70}k_{69}k_{61}k_{55} \oplus k_{60}k_{55} \oplus k_{65}k_{60}k_{55} \oplus k_{61}k_{60}k_{55} \oplus k_{74}k_{61}k_{60}k_{55} \oplus$$
$$k_{73}k_{72}k_{61}k_{60}k_{55} \oplus k_{59}k_{55} \oplus k_{72}k_{60}k_{59}k_{55} \oplus k_{71}k_{60}k_{59}k_{55} \oplus$$
$$k_{71}k_{70}k_{60}k_{59}k_{55} \oplus k_{70}k_{69}k_{60}k_{59}k_{55} \oplus k_{62}k_{60}k_{59}k_{55} \oplus k_{61}k_{60}k_{59}k_{55} \oplus$$
$$k_{60}k_{58}k_{55} \oplus k_{65}k_{57}k_{55} \oplus k_{58}k_{57}k_{55} \oplus k_{79}k_{78}k_{56}k_{55} \oplus k_{77}k_{56}k_{55} \oplus$$
$$k_{75}k_{56}k_{55} \oplus k_{76}k_{75}k_{56}k_{55} \oplus k_{74}k_{56}k_{55} \oplus k_{73}k_{56}k_{55} \oplus k_{72}k_{56}k_{55} \oplus$$
$$k_{76}k_{72}k_{56}k_{55} \oplus k_{75}k_{74}k_{72}k_{56}k_{55} \oplus k_{72}k_{71}k_{56}k_{55} \oplus k_{74}k_{72}k_{71}k_{56}k_{55} \oplus$$
$$k_{73}k_{72}k_{71}k_{56}k_{55} \oplus k_{71}k_{70}k_{56}k_{55} \oplus k_{76}k_{71}k_{70}k_{56}k_{55} \oplus k_{75}k_{74}k_{71}k_{70}k_{56}k_{55} \oplus$$
$$k_{69}k_{56}k_{55} \oplus k_{68}k_{67}k_{56}k_{55} \oplus k_{65}k_{56}k_{55} \oplus k_{74}k_{62}k_{56}k_{55} \oplus k_{73}k_{72}k_{62}k_{56}k_{55} \oplus$$
$$k_{75}k_{60}k_{56}k_{55} \oplus k_{74}k_{73}k_{60}k_{56}k_{55} \oplus k_{70}k_{60}k_{56}k_{55} \oplus k_{69}k_{68}k_{60}k_{56}k_{55} \oplus$$
$$k_{64}k_{60}k_{56}k_{55} \oplus k_{62}k_{60}k_{56}k_{55} \oplus k_{57}k_{56}k_{55} \oplus k_{60}k_{57}k_{56}k_{55} \oplus k_{54} \oplus$$
$$k_{79}k_{78}k_{54} \oplus k_{76}k_{54} \oplus k_{74}k_{54} \oplus k_{75}k_{74}k_{54} \oplus k_{73}k_{54} \oplus k_{72}k_{54} \oplus k_{73}k_{72}k_{54} \oplus$$
$$k_{72}k_{71}k_{54} \oplus k_{71}k_{70}k_{54} \oplus k_{67}k_{54} \oplus k_{66}k_{54} \oplus k_{74}k_{66}k_{54} \oplus k_{73}k_{72}k_{66}k_{54} \oplus$$
$$k_{69}k_{65}k_{54} \oplus k_{68}k_{67}k_{65}k_{54} \oplus k_{64}k_{63}k_{54} \oplus k_{66}k_{64}k_{63}k_{54} \oplus k_{65}k_{64}k_{63}k_{54} \oplus$$
$$k_{61}k_{54} \oplus k_{73}k_{61}k_{54} \oplus k_{72}k_{71}k_{61}k_{54} \oplus k_{60}k_{54} \oplus k_{79}k_{78}k_{60}k_{54} \oplus k_{59}k_{54} \oplus$$
$$k_{60}k_{59}k_{54} \oplus k_{73}k_{60}k_{59}k_{54} \oplus k_{72}k_{71}k_{60}k_{59}k_{54} \oplus k_{59}k_{58}k_{54} \oplus k_{65}k_{57}k_{54} \oplus$$
$$k_{79}k_{78}k_{56}k_{54} \oplus k_{69}k_{56}k_{54} \oplus k_{68}k_{67}k_{56}k_{54} \oplus k_{65}k_{56}k_{54} \oplus k_{57}k_{56}k_{54} \oplus$$
$$k_{55}k_{54} \oplus k_{79}k_{78}k_{55}k_{54} \oplus k_{79}k_{78}k_{74}k_{55}k_{54} \oplus k_{79}k_{78}k_{73}k_{72}k_{55}k_{54} \oplus$$
$$k_{71}k_{55}k_{54} \oplus k_{70}k_{55}k_{54} \oplus k_{70}k_{69}k_{55}k_{54} \oplus k_{69}k_{68}k_{55}k_{54} \oplus k_{67}k_{55}k_{54} \oplus$$
$$k_{66}k_{65}k_{55}k_{54} \oplus k_{79}k_{78}k_{60}k_{55}k_{54} \oplus k_{73}k_{60}k_{55}k_{54} \oplus k_{79}k_{78}k_{73}k_{60}k_{55}k_{54} \oplus$$
$$k_{72}k_{71}k_{60}k_{55}k_{54} \oplus k_{79}k_{78}k_{72}k_{71}k_{60}k_{55}k_{54} \oplus k_{70}k_{60}k_{55}k_{54} \oplus$$
$$k_{69}k_{68}k_{60}k_{55}k_{54} \oplus k_{65}k_{60}k_{55}k_{54} \oplus k_{65}k_{58}k_{55}k_{54} \oplus k_{57}k_{55}k_{54} \oplus k_{79}k_{53} \oplus$$
$$k_{78}k_{53} \oplus k_{79}k_{78}k_{53} \oplus k_{78}k_{77}k_{53} \oplus k_{77}k_{76}k_{53} \oplus k_{74}k_{53} \oplus k_{73}k_{53} \oplus$$
$$k_{73}k_{72}k_{53} \oplus k_{71}k_{53} \oplus k_{72}k_{71}k_{53} \oplus k_{70}k_{53} \oplus k_{69}k_{53} \oplus k_{70}k_{69}k_{53} \oplus k_{68}k_{53} \oplus$$
$$k_{69}k_{68}k_{53} \oplus k_{67}k_{53} \oplus k_{79}k_{67}k_{53} \oplus k_{78}k_{77}k_{67}k_{53} \oplus k_{68}k_{67}k_{53} \oplus k_{66}k_{53} \oplus$$
$$k_{79}k_{66}k_{53} \oplus k_{78}k_{77}k_{66}k_{53} \oplus k_{79}k_{65}k_{53} \oplus k_{78}k_{77}k_{65}k_{53} \oplus k_{64}k_{53} \oplus$$
$$k_{79}k_{64}k_{63}k_{53} \oplus k_{78}k_{77}k_{64}k_{63}k_{53} \oplus k_{66}k_{64}k_{63}k_{53} \oplus k_{79}k_{66}k_{64}k_{63}k_{53} \oplus$$

$k_{78}k_{77}k_{66}k_{64}k_{63}k_{53} \oplus k_{65}k_{64}k_{63}k_{53} \oplus k_{79}k_{65}k_{64}k_{63}k_{53}\oplus$

$k_{78}k_{77}k_{65}k_{64}k_{63}k_{53} \oplus k_{62}k_{53} \oplus k_{79}k_{78}k_{62}k_{53} \oplus k_{68}k_{62}k_{53} \oplus k_{64}k_{62}k_{53}\oplus$

$k_{61}k_{53} \oplus k_{78}k_{61}k_{53} \oplus k_{77}k_{76}k_{61}k_{53} \oplus k_{73}k_{61}k_{53} \oplus k_{72}k_{71}k_{61}k_{53}\oplus$

$k_{73}k_{60}k_{53} \oplus k_{72}k_{71}k_{60}k_{53} \oplus k_{69}k_{60}k_{53} \oplus k_{68}k_{67}k_{60}k_{53} \oplus k_{61}k_{60}k_{53}\oplus$

$k_{79}k_{78}k_{61}k_{60}k_{53} \oplus k_{68}k_{61}k_{60}k_{53} \oplus k_{64}k_{61}k_{60}k_{53} \oplus k_{59}k_{53} \oplus k_{60}k_{59}k_{53}\oplus$

$k_{78}k_{60}k_{59}k_{53} \oplus k_{77}k_{76}k_{60}k_{59}k_{53} \oplus k_{73}k_{60}k_{59}k_{53} \oplus k_{72}k_{71}k_{60}k_{59}k_{53}\oplus$

$k_{73}k_{59}k_{58}k_{53} \oplus k_{72}k_{71}k_{59}k_{58}k_{53} \oplus k_{57}k_{53} \oplus k_{56}k_{53} \oplus k_{74}k_{56}k_{53}\oplus$

$k_{76}k_{72}k_{56}k_{53} \oplus k_{75}k_{74}k_{72}k_{56}k_{53} \oplus k_{73}k_{72}k_{56}k_{53} \oplus k_{76}k_{71}k_{70}k_{56}k_{53}\oplus$

$k_{75}k_{74}k_{71}k_{70}k_{56}k_{53} \oplus k_{60}k_{56}k_{53} \oplus k_{73}k_{60}k_{56}k_{53} \oplus k_{72}k_{71}k_{60}k_{56}k_{53}\oplus$

$k_{55}k_{53} \oplus k_{56}k_{55}k_{53} \oplus k_{54}k_{53} \oplus k_{60}k_{54}k_{53} \oplus k_{70}k_{60}k_{54}k_{53} \oplus k_{69}k_{60}k_{54}k_{53}\oplus$

$k_{69}k_{68}k_{60}k_{54}k_{53} \oplus k_{68}k_{67}k_{60}k_{54}k_{53} \oplus k_{60}k_{58}k_{54}k_{53} \oplus k_{56}k_{54}k_{53}\oplus$

$k_{60}k_{56}k_{54}k_{53} \oplus k_{60}k_{57}k_{56}k_{54}k_{53} \oplus k_{55}k_{54}k_{53} \oplus k_{74}k_{55}k_{54}k_{53}\oplus$

$k_{73}k_{72}k_{55}k_{54}k_{53} \oplus k_{73}k_{60}k_{55}k_{54}k_{53} \oplus k_{72}k_{71}k_{60}k_{55}k_{54}k_{53}\oplus$

$k_{60}k_{56}k_{55}k_{54}k_{53} \oplus k_{52} \oplus k_{79}k_{52} \oplus k_{79}k_{78}k_{52} \oplus k_{78}k_{77}k_{52} \oplus k_{79}k_{78}k_{77}k_{52}\oplus$

$k_{73}k_{52} \oplus k_{72}k_{71}k_{52} \oplus k_{79}k_{68}k_{52} \oplus k_{78}k_{77}k_{68}k_{52} \oplus k_{67}k_{52} \oplus k_{79}k_{78}k_{67}k_{52}\oplus$

$k_{68}k_{67}k_{52} \oplus k_{79}k_{78}k_{66}k_{52} \oplus k_{68}k_{66}k_{52} \oplus k_{65}k_{52} \oplus k_{79}k_{78}k_{65}k_{52}\oplus$

$k_{68}k_{65}k_{52} \oplus k_{64}k_{52} \oplus k_{65}k_{64}k_{52} \oplus k_{64}k_{63}k_{52} \oplus k_{79}k_{78}k_{64}k_{63}k_{52}\oplus$

$k_{68}k_{64}k_{63}k_{52} \oplus k_{66}k_{64}k_{63}k_{52} \oplus k_{79}k_{78}k_{66}k_{64}k_{63}k_{52} \oplus k_{68}k_{66}k_{64}k_{63}k_{52}\oplus$

$k_{65}k_{64}k_{63}k_{52} \oplus k_{79}k_{78}k_{65}k_{64}k_{63}k_{52} \oplus k_{68}k_{65}k_{64}k_{63}k_{52} \oplus k_{79}k_{78}k_{62}k_{52}\oplus$

$k_{68}k_{62}k_{52} \oplus k_{64}k_{62}k_{52} \oplus k_{64}k_{61}k_{52} \oplus k_{60}k_{52} \oplus k_{75}k_{60}k_{52} \oplus k_{74}k_{73}k_{60}k_{52}\oplus$

$k_{64}k_{60}k_{52} \oplus k_{79}k_{78}k_{61}k_{60}k_{52} \oplus k_{68}k_{61}k_{60}k_{52} \oplus k_{64}k_{61}k_{60}k_{52} \oplus k_{64}k_{59}k_{52}\oplus$

$k_{74}k_{58}k_{52} \oplus k_{73}k_{72}k_{58}k_{52} \oplus k_{64}k_{58}k_{52} \oplus k_{64}k_{61}k_{58}k_{52} \oplus k_{64}k_{60}k_{58}k_{52}\oplus$

$k_{59}k_{58}k_{52} \oplus k_{64}k_{59}k_{58}k_{52} \oplus k_{74}k_{57}k_{52} \oplus k_{73}k_{72}k_{57}k_{52} \oplus k_{55}k_{52} \oplus k_{54}k_{52}\oplus$

$k_{79}k_{53}k_{52} \oplus k_{78}k_{77}k_{53}k_{52} \oplus k_{67}k_{53}k_{52} \oplus k_{66}k_{53}k_{52} \oplus k_{65}k_{53}k_{52}\oplus$

$k_{64}k_{63}k_{53}k_{52} \oplus k_{66}k_{64}k_{63}k_{53}k_{52} \oplus k_{65}k_{64}k_{63}k_{53}k_{52} \oplus k_{62}k_{53}k_{52}\oplus$

$k_{61}k_{60}k_{53}k_{52} \oplus k_{51} \oplus k_{79}k_{78}k_{51} \oplus k_{76}k_{51} \oplus k_{75}k_{51} \oplus k_{75}k_{74}k_{51} \oplus k_{73}k_{51}\oplus$

$k_{74}k_{73}k_{51} \oplus k_{72}k_{51} \oplus k_{73}k_{72}k_{51} \oplus k_{71}k_{51} \oplus k_{71}k_{70}k_{51} \oplus k_{73}k_{71}k_{70}k_{51}\oplus$

$k_{72}k_{71}k_{70}k_{51} \oplus k_{70}k_{69}k_{51} \oplus k_{66}k_{51} \oplus k_{67}k_{64}k_{51} \oplus k_{66}k_{65}k_{64}k_{51}\oplus$

$k_{79}k_{78}k_{61}k_{51} \oplus k_{76}k_{61}k_{51} \oplus k_{75}k_{74}k_{61}k_{51} \oplus k_{76}k_{73}k_{61}k_{51}\oplus$

$k_{75}k_{74}k_{73}k_{61}k_{51} \oplus k_{76}k_{72}k_{71}k_{61}k_{51} \oplus k_{75}k_{74}k_{72}k_{71}k_{61}k_{51} \oplus k_{76}k_{60}k_{51}\oplus$

$k_{75}k_{74}k_{60}k_{51} \oplus k_{73}k_{60}k_{51} \oplus k_{72}k_{71}k_{60}k_{51} \oplus k_{59}k_{51} \oplus k_{79}k_{78}k_{60}k_{59}k_{51}\oplus$

$k_{76}k_{60}k_{59}k_{51} \oplus k_{75}k_{74}k_{60}k_{59}k_{51} \oplus k_{76}k_{73}k_{60}k_{59}k_{51} \oplus k_{75}k_{74}k_{73}k_{60}k_{59}k_{51}\oplus$

$k_{76}k_{72}k_{71}k_{60}k_{59}k_{51} \oplus k_{75}k_{74}k_{72}k_{71}k_{60}k_{59}k_{51} \oplus k_{74}k_{58}k_{51} \oplus k_{73}k_{72}k_{58}k_{51}\oplus$

$k_{61}k_{58}k_{51} \oplus k_{76}k_{59}k_{58}k_{51} \oplus k_{75}k_{74}k_{59}k_{58}k_{51} \oplus k_{73}k_{59}k_{58}k_{51}\oplus$

$k_{72}k_{71}k_{59}k_{58}k_{51} \oplus k_{61}k_{59}k_{58}k_{51} \oplus k_{60}k_{59}k_{58}k_{51} \oplus k_{56}k_{51} \oplus k_{74}k_{56}k_{51}\oplus$

$k_{72}k_{56}k_{51} \oplus k_{73}k_{72}k_{56}k_{51} \oplus k_{71}k_{70}k_{56}k_{51} \oplus k_{62}k_{56}k_{51} \oplus k_{61}k_{56}k_{51}\oplus$

$k_{73}k_{61}k_{56}k_{51} \oplus k_{72}k_{71}k_{61}k_{56}k_{51} \oplus k_{60}k_{56}k_{51} \oplus k_{73}k_{60}k_{56}k_{51} \oplus$

$k_{72}k_{71}k_{60}k_{56}k_{51} \oplus k_{73}k_{60}k_{59}k_{56}k_{51} \oplus k_{72}k_{71}k_{60}k_{59}k_{56}k_{51} \oplus k_{59}k_{58}k_{56}k_{51} \oplus$

$k_{73}k_{59}k_{58}k_{56}k_{51} \oplus k_{72}k_{71}k_{59}k_{58}k_{56}k_{51} \oplus k_{61}k_{59}k_{58}k_{56}k_{51} \oplus$

$k_{60}k_{59}k_{58}k_{56}k_{51} \oplus k_{55}k_{51} \oplus k_{66}k_{54}k_{51} \oplus k_{53}k_{51} \oplus k_{61}k_{53}k_{51} \oplus$

$k_{60}k_{59}k_{53}k_{51} \oplus k_{79}k_{78}k_{52}k_{51} \oplus k_{68}k_{52}k_{51} \oplus k_{64}k_{52}k_{51} \oplus k_{79}k_{78}k_{62}k_{52}k_{51} \oplus$

$k_{68}k_{62}k_{52}k_{51} \oplus k_{64}k_{62}k_{52}k_{51} \oplus k_{79}k_{78}k_{61}k_{60}k_{52}k_{51} \oplus k_{68}k_{61}k_{60}k_{52}k_{51} \oplus$

$k_{64}k_{61}k_{60}k_{52}k_{51} \oplus k_{53}k_{52}k_{51} \oplus k_{62}k_{53}k_{52}k_{51} \oplus k_{61}k_{60}k_{53}k_{52}k_{51} \oplus k_{78}k_{50} \oplus$

$k_{77}k_{50} \oplus k_{76}k_{50} \oplus k_{77}k_{76}k_{50} \oplus k_{76}k_{75}k_{50} \oplus k_{74}k_{50} \oplus k_{76}k_{74}k_{50} \oplus k_{73}k_{50} \oplus$

$k_{76}k_{73}k_{50} \oplus k_{75}k_{74}k_{73}k_{50} \oplus k_{76}k_{72}k_{50} \oplus k_{75}k_{74}k_{72}k_{50} \oplus k_{73}k_{72}k_{50} \oplus$

$k_{72}k_{71}k_{50} \oplus k_{76}k_{71}k_{70}k_{50} \oplus k_{75}k_{74}k_{71}k_{70}k_{50} \oplus k_{76}k_{73}k_{71}k_{70}k_{50} \oplus$

$k_{75}k_{74}k_{73}k_{71}k_{70}k_{50} \oplus k_{76}k_{72}k_{71}k_{70}k_{50} \oplus k_{75}k_{74}k_{72}k_{71}k_{70}k_{50} \oplus k_{69}k_{50} \oplus$

$k_{67}k_{50} \oplus k_{68}k_{67}k_{50} \oplus k_{66}k_{50} \oplus k_{66}k_{65}k_{50} \oplus k_{67}k_{64}k_{50} \oplus k_{66}k_{65}k_{64}k_{50} \oplus$

$k_{63}k_{50} \oplus k_{76}k_{62}k_{50} \oplus k_{75}k_{74}k_{62}k_{50} \oplus k_{61}k_{50} \oplus k_{73}k_{61}k_{50} \oplus k_{72}k_{71}k_{61}k_{50} \oplus$

$k_{62}k_{61}k_{50} \oplus k_{60}k_{50} \oplus k_{78}k_{60}k_{50} \oplus k_{76}k_{60}k_{50} \oplus k_{77}k_{76}k_{60}k_{50} \oplus k_{75}k_{60}k_{50} \oplus$

$k_{75}k_{74}k_{60}k_{50} \oplus k_{74}k_{73}k_{60}k_{50} \oplus k_{66}k_{60}k_{50} \oplus k_{64}k_{60}k_{50} \oplus k_{65}k_{64}k_{60}k_{50} \oplus$

$k_{62}k_{60}k_{50} \oplus k_{76}k_{61}k_{60}k_{50} \oplus k_{75}k_{61}k_{60}k_{50} \oplus k_{75}k_{74}k_{61}k_{60}k_{50} \oplus$

$k_{74}k_{73}k_{61}k_{60}k_{50} \oplus k_{76}k_{59}k_{50} \oplus k_{75}k_{74}k_{59}k_{50} \oplus k_{60}k_{59}k_{50} \oplus k_{75}k_{60}k_{59}k_{50} \oplus$

$k_{73}k_{60}k_{59}k_{50} \oplus k_{74}k_{73}k_{60}k_{59}k_{50} \oplus k_{72}k_{71}k_{60}k_{59}k_{50} \oplus k_{58}k_{50} \oplus k_{64}k_{58}k_{50} \oplus$

$k_{76}k_{60}k_{58}k_{50} \oplus k_{75}k_{60}k_{58}k_{50} \oplus k_{75}k_{74}k_{60}k_{58}k_{50} \oplus k_{74}k_{73}k_{60}k_{58}k_{50} \oplus$

$k_{76}k_{57}k_{50} \oplus k_{75}k_{74}k_{57}k_{50} \oplus k_{64}k_{57}k_{50} \oplus k_{76}k_{58}k_{57}k_{50} \oplus k_{75}k_{74}k_{58}k_{57}k_{50} \oplus$

$k_{56}k_{50} \oplus k_{76}k_{56}k_{50} \oplus k_{74}k_{56}k_{50} \oplus k_{75}k_{74}k_{56}k_{50} \oplus k_{72}k_{56}k_{50} \oplus$

$k_{72}k_{71}k_{56}k_{50} \oplus k_{71}k_{70}k_{56}k_{50} \oplus k_{73}k_{71}k_{70}k_{56}k_{50} \oplus k_{72}k_{71}k_{70}k_{56}k_{50} \oplus$

$k_{59}k_{56}k_{50} \oplus k_{58}k_{57}k_{56}k_{50} \oplus k_{76}k_{55}k_{50} \oplus k_{75}k_{74}k_{55}k_{50} \oplus k_{56}k_{55}k_{50} \oplus$

$k_{66}k_{54}k_{50} \oplus k_{51}k_{50} \oplus k_{79}k_{51}k_{50} \oplus k_{79}k_{78}k_{51}k_{50} \oplus k_{78}k_{77}k_{51}k_{50} \oplus$

$k_{79}k_{78}k_{77}k_{51}k_{50} \oplus k_{79}k_{68}k_{51}k_{50} \oplus k_{78}k_{77}k_{68}k_{51}k_{50} \oplus k_{66}k_{51}k_{50} \oplus$

$k_{64}k_{51}k_{50} \oplus k_{65}k_{64}k_{51}k_{50} \oplus k_{79}k_{78}k_{62}k_{51}k_{50} \oplus k_{68}k_{62}k_{51}k_{50} \oplus$

$k_{64}k_{62}k_{51}k_{50} \oplus k_{60}k_{51}k_{50} \oplus k_{79}k_{78}k_{61}k_{60}k_{51}k_{50} \oplus k_{68}k_{61}k_{60}k_{51}k_{50} \oplus$

$k_{64}k_{61}k_{60}k_{51}k_{50} \oplus k_{57}k_{51}k_{50} \oplus k_{54}k_{51}k_{50} \oplus k_{79}k_{53}k_{51}k_{50} \oplus$

$k_{78}k_{77}k_{53}k_{51}k_{50} \oplus k_{62}k_{53}k_{51}k_{50} \oplus k_{61}k_{60}k_{53}k_{51}k_{50} \oplus k_{52}k_{51}k_{50} \oplus$

$k_{79}k_{78}k_{52}k_{51}k_{50} \oplus k_{68}k_{52}k_{51}k_{50} \oplus k_{53}k_{52}k_{51}k_{50} \oplus k_{77}k_{49} \oplus k_{79}k_{78}k_{76}k_{49} \oplus$

$k_{79}k_{78}k_{77}k_{76}k_{49} \oplus k_{76}k_{75}k_{49} \oplus k_{74}k_{49} \oplus k_{78}k_{74}k_{49} \oplus k_{77}k_{74}k_{49} \oplus$

$k_{76}k_{74}k_{49} \oplus k_{77}k_{76}k_{74}k_{49} \oplus k_{75}k_{74}k_{49} \oplus k_{79}k_{78}k_{75}k_{74}k_{49} \oplus k_{76}k_{75}k_{74}k_{49} \oplus$

$k_{78}k_{73}k_{49} \oplus k_{77}k_{73}k_{49} \oplus k_{76}k_{73}k_{49} \oplus k_{77}k_{76}k_{73}k_{49} \oplus k_{76}k_{75}k_{73}k_{49} \oplus$

$k_{75}k_{74}k_{73}k_{49} \oplus k_{77}k_{72}k_{49} \oplus k_{76}k_{72}k_{49} \oplus k_{76}k_{75}k_{72}k_{49} \oplus k_{75}k_{74}k_{72}k_{49} \oplus$

$k_{78}k_{73}k_{72}k_{49} \oplus k_{76}k_{73}k_{72}k_{49} \oplus k_{77}k_{76}k_{73}k_{72}k_{49} \oplus k_{75}k_{74}k_{73}k_{72}k_{49} \oplus$

$k_{71}k_{49} \oplus k_{78}k_{71}k_{49} \oplus k_{79}k_{78}k_{71}k_{49} \oplus k_{77}k_{76}k_{71}k_{49} \oplus k_{78}k_{72}k_{71}k_{49} \oplus$

$$k_{76}k_{72}k_{71}k_{49} \oplus k_{77}k_{76}k_{72}k_{71}k_{49} \oplus k_{75}k_{74}k_{72}k_{71}k_{49} \oplus k_{71}k_{70}k_{49}\oplus$$

$$k_{77}k_{71}k_{70}k_{49} \oplus k_{76}k_{71}k_{70}k_{49} \oplus k_{76}k_{75}k_{71}k_{70}k_{49} \oplus k_{75}k_{74}k_{71}k_{70}k_{49}\oplus$$

$$k_{73}k_{71}k_{70}k_{49} \oplus k_{77}k_{73}k_{71}k_{70}k_{49} \oplus k_{76}k_{75}k_{73}k_{71}k_{70}k_{49} \oplus k_{72}k_{71}k_{70}k_{49}\oplus$$

$$k_{77}k_{72}k_{71}k_{70}k_{49} \oplus k_{76}k_{75}k_{72}k_{71}k_{70}k_{49} \oplus k_{72}k_{69}k_{49} \oplus k_{70}k_{69}k_{49}\oplus$$

$$k_{78}k_{70}k_{69}k_{49} \oplus k_{79}k_{78}k_{70}k_{69}k_{49} \oplus k_{77}k_{76}k_{70}k_{69}k_{49} \oplus k_{72}k_{70}k_{69}k_{49}\oplus$$

$$k_{68}k_{49} \oplus k_{72}k_{68}k_{49} \oplus k_{71}k_{70}k_{68}k_{49} \oplus k_{67}k_{49} \oplus k_{72}k_{68}k_{67}k_{49}\oplus$$

$$k_{71}k_{70}k_{68}k_{67}k_{49} \oplus k_{66}k_{65}k_{49} \oplus k_{64}k_{49} \oplus k_{79}k_{78}k_{64}k_{49} \oplus k_{71}k_{64}k_{49}\oplus$$

$$k_{70}k_{69}k_{64}k_{49} \oplus k_{67}k_{64}k_{49} \oplus k_{65}k_{64}k_{49} \oplus k_{66}k_{65}k_{64}k_{49} \oplus k_{62}k_{49}\oplus$$

$$k_{77}k_{62}k_{49} \oplus k_{76}k_{75}k_{62}k_{49} \oplus k_{61}k_{49} \oplus k_{79}k_{78}k_{77}k_{76}k_{61}k_{49} \oplus k_{75}k_{61}k_{49}\oplus$$

$$k_{78}k_{73}k_{61}k_{49} \oplus k_{77}k_{76}k_{73}k_{61}k_{49} \oplus k_{75}k_{73}k_{61}k_{49} \oplus k_{78}k_{72}k_{71}k_{61}k_{49}\oplus$$

$$k_{77}k_{76}k_{72}k_{71}k_{61}k_{49} \oplus k_{75}k_{72}k_{71}k_{61}k_{49} \oplus k_{74}k_{73}k_{72}k_{71}k_{61}k_{49} \oplus k_{78}k_{60}k_{49}\oplus$$

$$k_{77}k_{60}k_{49} \oplus k_{77}k_{76}k_{60}k_{49} \oplus k_{76}k_{75}k_{60}k_{49} \oplus k_{64}k_{60}k_{49} \oplus k_{61}k_{60}k_{49}\oplus$$

$$k_{77}k_{61}k_{60}k_{49} \oplus k_{76}k_{75}k_{61}k_{60}k_{49} \oplus k_{78}k_{59}k_{49} \oplus k_{77}k_{59}k_{49} \oplus k_{77}k_{76}k_{59}k_{49}\oplus$$

$$k_{76}k_{75}k_{59}k_{49} \oplus k_{71}k_{59}k_{49} \oplus k_{70}k_{69}k_{59}k_{49} \oplus k_{64}k_{59}k_{49} \oplus k_{60}k_{59}k_{49}\oplus$$

$$k_{79}k_{78}k_{77}k_{76}k_{60}k_{59}k_{49} \oplus k_{75}k_{60}k_{59}k_{49} \oplus k_{78}k_{73}k_{60}k_{59}k_{49}\oplus$$

$$k_{77}k_{76}k_{73}k_{60}k_{59}k_{49} \oplus k_{75}k_{73}k_{60}k_{59}k_{49} \oplus k_{78}k_{72}k_{71}k_{60}k_{59}k_{49}\oplus$$

$$k_{77}k_{76}k_{72}k_{71}k_{60}k_{59}k_{49} \oplus k_{75}k_{72}k_{71}k_{60}k_{59}k_{49} \oplus k_{74}k_{73}k_{72}k_{71}k_{60}k_{59}k_{49}\oplus$$

$$k_{58}k_{49} \oplus k_{78}k_{58}k_{49} \oplus k_{77}k_{76}k_{58}k_{49} \oplus k_{72}k_{58}k_{49} \oplus k_{71}k_{58}k_{49}\oplus$$

$$k_{71}k_{70}k_{58}k_{49} \oplus k_{70}k_{69}k_{58}k_{49} \oplus k_{62}k_{58}k_{49} \oplus k_{77}k_{60}k_{58}k_{49} \oplus k_{75}k_{60}k_{58}k_{49}\oplus$$

$$k_{76}k_{75}k_{60}k_{58}k_{49} \oplus k_{74}k_{73}k_{60}k_{58}k_{49} \oplus k_{59}k_{58}k_{49} \oplus k_{78}k_{59}k_{58}k_{49}\oplus$$

$$k_{77}k_{76}k_{59}k_{58}k_{49} \oplus k_{57}k_{49} \oplus k_{78}k_{57}k_{49} \oplus k_{77}k_{57}k_{49} \oplus k_{77}k_{76}k_{57}k_{49}\oplus$$

$$k_{76}k_{75}k_{57}k_{49} \oplus k_{74}k_{57}k_{49} \oplus k_{73}k_{57}k_{49} \oplus k_{73}k_{72}k_{57}k_{49} \oplus k_{71}k_{57}k_{49}\oplus$$

$$k_{72}k_{71}k_{57}k_{49} \oplus k_{70}k_{69}k_{57}k_{49} \oplus k_{64}k_{57}k_{49} \oplus k_{61}k_{57}k_{49} \oplus k_{60}k_{57}k_{49}\oplus$$

$$k_{60}k_{59}k_{57}k_{49} \oplus k_{58}k_{57}k_{49} \oplus k_{78}k_{58}k_{57}k_{49} \oplus k_{77}k_{58}k_{57}k_{49}\oplus$$

$$k_{77}k_{76}k_{58}k_{57}k_{49} \oplus k_{76}k_{75}k_{58}k_{57}k_{49} \oplus k_{71}k_{58}k_{57}k_{49} \oplus k_{70}k_{69}k_{58}k_{57}k_{49}\oplus$$

$$k_{64}k_{58}k_{57}k_{49} \oplus k_{59}k_{58}k_{57}k_{49} \oplus k_{77}k_{56}k_{49} \oplus k_{75}k_{56}k_{49} \oplus k_{76}k_{75}k_{56}k_{49}\oplus$$

$$k_{73}k_{56}k_{49} \oplus k_{75}k_{73}k_{56}k_{49} \oplus k_{72}k_{56}k_{49} \oplus k_{75}k_{72}k_{56}k_{49} \oplus k_{74}k_{73}k_{72}k_{56}k_{49}\oplus$$

$$k_{72}k_{71}k_{56}k_{49} \oplus k_{75}k_{72}k_{71}k_{56}k_{49} \oplus k_{74}k_{73}k_{72}k_{71}k_{56}k_{49} \oplus k_{71}k_{70}k_{56}k_{49}\oplus$$

$$k_{75}k_{71}k_{70}k_{56}k_{49} \oplus k_{74}k_{73}k_{71}k_{70}k_{56}k_{49} \oplus k_{59}k_{56}k_{49} \oplus k_{57}k_{56}k_{49}\oplus$$

$$k_{58}k_{57}k_{56}k_{49} \oplus k_{77}k_{55}k_{49} \oplus k_{76}k_{75}k_{55}k_{49} \oplus k_{72}k_{55}k_{49} \oplus k_{71}k_{70}k_{55}k_{49}\oplus$$

$$k_{72}k_{56}k_{55}k_{49} \oplus k_{71}k_{70}k_{56}k_{55}k_{49} \oplus k_{54}k_{49} \oplus k_{66}k_{54}k_{49} \oplus k_{53}k_{49}\oplus$$

$$k_{78}k_{53}k_{49} \oplus k_{76}k_{53}k_{49} \oplus k_{77}k_{76}k_{53}k_{49} \oplus k_{75}k_{74}k_{53}k_{49} \oplus k_{71}k_{53}k_{49}\oplus$$

$$k_{70}k_{69}k_{53}k_{49} \oplus k_{64}k_{53}k_{49} \oplus k_{61}k_{53}k_{49} \oplus k_{78}k_{61}k_{53}k_{49} \oplus k_{77}k_{76}k_{61}k_{53}k_{49}\oplus$$

$$k_{60}k_{59}k_{53}k_{49} \oplus k_{78}k_{60}k_{59}k_{53}k_{49} \oplus k_{77}k_{76}k_{60}k_{59}k_{53}k_{49} \oplus k_{51}k_{49}\oplus$$

$$k_{79}k_{78}k_{51}k_{49} \oplus k_{74}k_{51}k_{49} \oplus k_{73}k_{51}k_{49} \oplus k_{73}k_{72}k_{51}k_{49} \oplus k_{71}k_{51}k_{49}\oplus$$

$$k_{72}k_{71}k_{51}k_{49} \oplus k_{70}k_{69}k_{51}k_{49} \oplus k_{79}k_{78}k_{61}k_{51}k_{49} \oplus k_{73}k_{61}k_{51}k_{49}\oplus$$

$$k_{72}k_{71}k_{61}k_{51}k_{49} \oplus k_{60}k_{51}k_{49} \oplus k_{59}k_{51}k_{49} \oplus k_{79}k_{78}k_{60}k_{59}k_{51}k_{49} \oplus$$

$$k_{73}k_{60}k_{59}k_{51}k_{49} \oplus k_{72}k_{71}k_{60}k_{59}k_{51}k_{49} \oplus k_{58}k_{51}k_{49} \oplus k_{59}k_{58}k_{51}k_{49} \oplus$$

$$k_{57}k_{51}k_{49} \oplus k_{58}k_{57}k_{51}k_{49} \oplus k_{53}k_{51}k_{49} \oplus k_{61}k_{53}k_{51}k_{49} \oplus k_{60}k_{59}k_{53}k_{51}k_{49} \oplus$$

$$k_{50}k_{49} \oplus k_{77}k_{50}k_{49} \oplus k_{76}k_{50}k_{49} \oplus k_{76}k_{75}k_{50}k_{49} \oplus k_{75}k_{74}k_{50}k_{49} \oplus$$

$$k_{73}k_{72}k_{50}k_{49} \oplus k_{72}k_{71}k_{50}k_{49} \oplus k_{73}k_{71}k_{70}k_{50}k_{49} \oplus k_{72}k_{71}k_{70}k_{50}k_{49} \oplus$$

$$k_{67}k_{50}k_{49} \oplus k_{66}k_{50}k_{49} \oplus k_{66}k_{65}k_{50}k_{49} \oplus k_{67}k_{64}k_{50}k_{49} \oplus k_{66}k_{65}k_{64}k_{50}k_{49} \oplus$$

$$k_{60}k_{50}k_{49} \oplus k_{61}k_{60}k_{50}k_{49} \oplus k_{59}k_{50}k_{49} \oplus k_{60}k_{58}k_{50}k_{49} \oplus k_{58}k_{57}k_{50}k_{49} \oplus$$

$$k_{56}k_{50}k_{49} \oplus k_{55}k_{50}k_{49} \oplus k_{66}k_{54}k_{50}k_{49} \oplus k_{52}k_{50}k_{49} \oplus k_{51}k_{50}k_{49} \oplus k_{78}k_{48} \oplus$$

$$k_{79}k_{78}k_{48} \oplus k_{76}k_{48} \oplus k_{77}k_{76}k_{48} \oplus k_{74}k_{48} \oplus k_{79}k_{78}k_{74}k_{48} \oplus k_{75}k_{74}k_{48} \oplus$$

$$k_{73}k_{72}k_{48} \oplus k_{79}k_{78}k_{73}k_{72}k_{48} \oplus k_{74}k_{71}k_{48} \oplus k_{73}k_{72}k_{71}k_{48} \oplus k_{74}k_{70}k_{69}k_{48} \oplus$$

$$k_{73}k_{72}k_{70}k_{69}k_{48} \oplus k_{72}k_{68}k_{48} \oplus k_{71}k_{70}k_{68}k_{48} \oplus k_{67}k_{48} \oplus k_{74}k_{67}k_{48} \oplus$$

$$k_{73}k_{72}k_{67}k_{48} \oplus k_{74}k_{66}k_{48} \oplus k_{73}k_{72}k_{66}k_{48} \oplus k_{66}k_{65}k_{48} \oplus k_{74}k_{66}k_{65}k_{48} \oplus$$

$$k_{73}k_{72}k_{66}k_{65}k_{48} \oplus k_{74}k_{64}k_{48} \oplus k_{73}k_{64}k_{48} \oplus k_{73}k_{71}k_{70}k_{64}k_{48} \oplus$$

$$k_{72}k_{71}k_{70}k_{64}k_{48} \oplus k_{74}k_{65}k_{64}k_{48} \oplus k_{73}k_{72}k_{65}k_{64}k_{48} \oplus k_{62}k_{48} \oplus k_{74}k_{62}k_{48} \oplus$$

$$k_{73}k_{72}k_{62}k_{48} \oplus k_{61}k_{48} \oplus k_{76}k_{61}k_{48} \oplus k_{75}k_{74}k_{61}k_{48} \oplus k_{76}k_{73}k_{61}k_{48} \oplus$$

$$k_{75}k_{74}k_{73}k_{61}k_{48} \oplus k_{76}k_{72}k_{71}k_{61}k_{48} \oplus k_{75}k_{74}k_{72}k_{71}k_{61}k_{48} \oplus k_{67}k_{61}k_{48} \oplus$$

$$k_{66}k_{65}k_{61}k_{48} \oplus k_{64}k_{61}k_{48} \oplus k_{62}k_{61}k_{48} \oplus k_{74}k_{62}k_{61}k_{48} \oplus k_{73}k_{72}k_{62}k_{61}k_{48} \oplus$$

$$k_{60}k_{48} \oplus k_{79}k_{60}k_{48} \oplus k_{78}k_{77}k_{60}k_{48} \oplus k_{74}k_{60}k_{48} \oplus k_{73}k_{60}k_{48} \oplus k_{72}k_{60}k_{48} \oplus$$

$$k_{73}k_{72}k_{60}k_{48} \oplus k_{72}k_{71}k_{60}k_{48} \oplus k_{71}k_{70}k_{60}k_{48} \oplus k_{69}k_{60}k_{48} \oplus k_{68}k_{67}k_{60}k_{48} \oplus$$

$$k_{66}k_{60}k_{48} \oplus k_{64}k_{60}k_{48} \oplus k_{61}k_{60}k_{48} \oplus k_{74}k_{59}k_{48} \oplus k_{73}k_{72}k_{59}k_{48} \oplus$$

$$k_{76}k_{60}k_{59}k_{48} \oplus k_{75}k_{74}k_{60}k_{59}k_{48} \oplus k_{76}k_{73}k_{60}k_{59}k_{48} \oplus k_{75}k_{74}k_{73}k_{60}k_{59}k_{48} \oplus$$

$$k_{76}k_{72}k_{71}k_{60}k_{59}k_{48} \oplus k_{75}k_{74}k_{72}k_{71}k_{60}k_{59}k_{48} \oplus k_{67}k_{60}k_{59}k_{48} \oplus$$

$$k_{66}k_{65}k_{60}k_{59}k_{48} \oplus k_{62}k_{60}k_{59}k_{48} \oplus k_{74}k_{62}k_{60}k_{59}k_{48} \oplus k_{73}k_{72}k_{62}k_{60}k_{59}k_{48} \oplus$$

$$k_{74}k_{58}k_{48} \oplus k_{73}k_{72}k_{58}k_{48} \oplus k_{64}k_{58}k_{48} \oplus k_{64}k_{61}k_{58}k_{48} \oplus k_{60}k_{58}k_{48} \oplus$$

$$k_{76}k_{60}k_{58}k_{48} \oplus k_{75}k_{74}k_{60}k_{58}k_{48} \oplus k_{72}k_{60}k_{58}k_{48} \oplus k_{71}k_{70}k_{60}k_{58}k_{48} \oplus$$

$$k_{64}k_{60}k_{58}k_{48} \oplus k_{59}k_{58}k_{48} \oplus k_{74}k_{59}k_{58}k_{48} \oplus k_{73}k_{59}k_{58}k_{48} \oplus k_{72}k_{59}k_{58}k_{48} \oplus$$

$$k_{73}k_{72}k_{59}k_{58}k_{48} \oplus k_{72}k_{71}k_{59}k_{58}k_{48} \oplus k_{71}k_{70}k_{59}k_{58}k_{48} \oplus k_{64}k_{59}k_{58}k_{48} \oplus$$

$$k_{57}k_{48} \oplus k_{74}k_{57}k_{48} \oplus k_{72}k_{57}k_{48} \oplus k_{73}k_{72}k_{57}k_{48} \oplus k_{71}k_{70}k_{57}k_{48} \oplus$$

$$k_{61}k_{57}k_{48} \oplus k_{60}k_{59}k_{57}k_{48} \oplus k_{74}k_{58}k_{57}k_{48} \oplus k_{72}k_{58}k_{57}k_{48} \oplus$$

$$k_{73}k_{72}k_{58}k_{57}k_{48} \oplus k_{71}k_{70}k_{58}k_{57}k_{48} \oplus k_{64}k_{58}k_{57}k_{48} \oplus k_{59}k_{58}k_{57}k_{48} \oplus$$

$$k_{56}k_{48} \oplus k_{76}k_{56}k_{48} \oplus k_{74}k_{56}k_{48} \oplus k_{75}k_{74}k_{56}k_{48} \oplus k_{76}k_{73}k_{56}k_{48} \oplus$$

$$k_{75}k_{74}k_{73}k_{56}k_{48} \oplus k_{76}k_{72}k_{56}k_{48} \oplus k_{75}k_{74}k_{72}k_{56}k_{48} \oplus k_{73}k_{72}k_{56}k_{48} \oplus$$

$$k_{76}k_{72}k_{71}k_{56}k_{48} \oplus k_{75}k_{74}k_{72}k_{71}k_{56}k_{48} \oplus k_{76}k_{71}k_{70}k_{56}k_{48} \oplus$$

$$k_{75}k_{74}k_{71}k_{70}k_{56}k_{48} \oplus k_{60}k_{56}k_{48} \oplus k_{57}k_{56}k_{48} \oplus k_{55}k_{48} \oplus k_{60}k_{56}k_{55}k_{48} \oplus$$

$$k_{53}k_{48} \oplus k_{74}k_{53}k_{48} \oplus k_{73}k_{72}k_{53}k_{48} \oplus k_{60}k_{52}k_{48} \oplus k_{51}k_{48} \oplus k_{60}k_{50}k_{48} \oplus$$

$$k_{61}k_{60}k_{50}k_{48} \oplus k_{60}k_{59}k_{50}k_{48} \oplus k_{60}k_{58}k_{50}k_{48} \oplus k_{77}k_{49}k_{48} \oplus k_{76}k_{49}k_{48} \oplus$$

$$k_{76}k_{75}k_{49}k_{48} \oplus k_{74}k_{49}k_{48} \oplus k_{75}k_{74}k_{49}k_{48} \oplus k_{73}k_{72}k_{49}k_{48} \oplus k_{67}k_{49}k_{48} \oplus$$

$$k_{66}k_{49}k_{48} \oplus k_{66}k_{65}k_{49}k_{48} \oplus k_{67}k_{64}k_{49}k_{48} \oplus k_{66}k_{65}k_{64}k_{49}k_{48} \oplus k_{62}k_{49}k_{48} \oplus$$

$$k_{61}k_{49}k_{48} \oplus k_{73}k_{61}k_{49}k_{48} \oplus k_{72}k_{71}k_{61}k_{49}k_{48} \oplus k_{78}k_{60}k_{49}k_{48} \oplus$$

$$k_{77}k_{76}k_{60}k_{49}k_{48} \oplus k_{75}k_{60}k_{49}k_{48} \oplus k_{74}k_{73}k_{60}k_{49}k_{48} \oplus k_{62}k_{60}k_{49}k_{48} \oplus$$

$$k_{75}k_{61}k_{60}k_{49}k_{48} \oplus k_{74}k_{73}k_{61}k_{60}k_{49}k_{48} \oplus k_{75}k_{60}k_{59}k_{49}k_{48} \oplus$$

$$k_{73}k_{60}k_{59}k_{49}k_{48} \oplus k_{74}k_{73}k_{60}k_{59}k_{49}k_{48} \oplus k_{72}k_{71}k_{60}k_{59}k_{49}k_{48} \oplus$$

$$k_{75}k_{60}k_{58}k_{49}k_{48} \oplus k_{74}k_{73}k_{60}k_{58}k_{49}k_{48} \oplus k_{57}k_{49}k_{48} \oplus k_{56}k_{49}k_{48} \oplus$$

$$k_{73}k_{56}k_{49}k_{48} \oplus k_{72}k_{56}k_{49}k_{48} \oplus k_{72}k_{71}k_{56}k_{49}k_{48} \oplus k_{71}k_{70}k_{56}k_{49}k_{48} \oplus$$

$$k_{66}k_{54}k_{49}k_{48} \oplus k_{60}k_{51}k_{49}k_{48} \oplus k_{50}k_{49}k_{48} \oplus k_{47} \oplus k_{78}k_{47} \oplus k_{79}k_{78}k_{47} \oplus$$

$$k_{79}k_{78}k_{76}k_{47} \oplus k_{79}k_{78}k_{77}k_{76}k_{47} \oplus k_{76}k_{75}k_{47} \oplus k_{79}k_{78}k_{75}k_{74}k_{47} \oplus$$

$$k_{77}k_{75}k_{74}k_{47} \oplus k_{76}k_{75}k_{74}k_{47} \oplus k_{72}k_{47} \oplus k_{71}k_{47} \oplus k_{71}k_{70}k_{47} \oplus k_{73}k_{69}k_{47} \oplus$$

$$k_{72}k_{71}k_{69}k_{47} \oplus k_{70}k_{69}k_{47} \oplus k_{68}k_{47} \oplus k_{72}k_{68}k_{47} \oplus k_{71}k_{70}k_{68}k_{47} \oplus$$

$$k_{73}k_{68}k_{67}k_{47} \oplus k_{72}k_{71}k_{68}k_{67}k_{47} \oplus k_{75}k_{66}k_{47} \oplus k_{74}k_{73}k_{66}k_{47} \oplus k_{67}k_{66}k_{47} \oplus$$

$$k_{75}k_{65}k_{64}k_{47} \oplus k_{74}k_{73}k_{65}k_{64}k_{47} \oplus k_{63}k_{47} \oplus k_{75}k_{62}k_{47} \oplus k_{74}k_{73}k_{62}k_{47} \oplus$$

$$k_{69}k_{62}k_{47} \oplus k_{68}k_{67}k_{62}k_{47} \oplus k_{66}k_{62}k_{47} \oplus k_{65}k_{62}k_{47} \oplus k_{64}k_{63}k_{62}k_{47} \oplus$$

$$k_{61}k_{47} \oplus k_{75}k_{61}k_{47} \oplus k_{73}k_{61}k_{47} \oplus k_{74}k_{73}k_{61}k_{47} \oplus k_{72}k_{71}k_{61}k_{47} \oplus$$

$$k_{62}k_{61}k_{47} \oplus k_{75}k_{62}k_{61}k_{47} \oplus k_{74}k_{73}k_{62}k_{61}k_{47} \oplus k_{73}k_{60}k_{47} \oplus k_{72}k_{60}k_{47} \oplus$$

$$k_{72}k_{71}k_{60}k_{47} \oplus k_{71}k_{70}k_{60}k_{47} \oplus k_{64}k_{60}k_{47} \oplus k_{75}k_{64}k_{60}k_{47} \oplus$$

$$k_{74}k_{73}k_{64}k_{60}k_{47} \oplus k_{61}k_{60}k_{47} \oplus k_{62}k_{61}k_{60}k_{47} \oplus k_{64}k_{59}k_{47} \oplus k_{75}k_{64}k_{59}k_{47} \oplus$$

$$k_{74}k_{73}k_{64}k_{59}k_{47} \oplus k_{60}k_{59}k_{47} \oplus k_{75}k_{60}k_{59}k_{47} \oplus k_{73}k_{60}k_{59}k_{47} \oplus$$

$$k_{74}k_{73}k_{60}k_{59}k_{47} \oplus k_{72}k_{71}k_{60}k_{59}k_{47} \oplus k_{75}k_{62}k_{60}k_{59}k_{47} \oplus$$

$$k_{74}k_{73}k_{62}k_{60}k_{59}k_{47} \oplus k_{79}k_{58}k_{47} \oplus k_{78}k_{58}k_{47} \oplus k_{77}k_{58}k_{47} \oplus k_{78}k_{77}k_{58}k_{47} \oplus$$

$$k_{76}k_{58}k_{47} \oplus k_{77}k_{76}k_{58}k_{47} \oplus k_{76}k_{74}k_{73}k_{58}k_{47} \oplus k_{75}k_{74}k_{73}k_{58}k_{47} \oplus$$

$$k_{72}k_{58}k_{47} \oplus k_{71}k_{70}k_{58}k_{47} \oplus k_{64}k_{58}k_{47} \oplus k_{75}k_{64}k_{58}k_{47} \oplus k_{74}k_{73}k_{64}k_{58}k_{47} \oplus$$

$$k_{61}k_{58}k_{47} \oplus k_{72}k_{60}k_{58}k_{47} \oplus k_{71}k_{70}k_{60}k_{58}k_{47} \oplus k_{64}k_{60}k_{58}k_{47} \oplus$$

$$k_{75}k_{64}k_{60}k_{58}k_{47} \oplus k_{74}k_{73}k_{64}k_{60}k_{58}k_{47} \oplus k_{73}k_{59}k_{58}k_{47} \oplus k_{72}k_{59}k_{58}k_{47} \oplus$$

$$k_{72}k_{71}k_{59}k_{58}k_{47} \oplus k_{71}k_{70}k_{59}k_{58}k_{47} \oplus k_{64}k_{59}k_{58}k_{47} \oplus k_{75}k_{64}k_{59}k_{58}k_{47} \oplus$$

$$k_{74}k_{73}k_{64}k_{59}k_{58}k_{47} \oplus k_{61}k_{59}k_{58}k_{47} \oplus k_{60}k_{59}k_{58}k_{47} \oplus k_{79}k_{57}k_{47} \oplus$$

$$k_{78}k_{57}k_{47} \oplus k_{78}k_{77}k_{57}k_{47} \oplus k_{76}k_{57}k_{47} \oplus k_{77}k_{76}k_{57}k_{47} \oplus k_{75}k_{57}k_{47} \oplus$$

$$k_{75}k_{74}k_{57}k_{47} \oplus k_{73}k_{57}k_{47} \oplus k_{74}k_{73}k_{57}k_{47} \oplus k_{72}k_{57}k_{47} \oplus k_{72}k_{71}k_{57}k_{47} \oplus$$

$$k_{71}k_{70}k_{57}k_{47} \oplus k_{62}k_{57}k_{47} \oplus k_{61}k_{57}k_{47} \oplus k_{60}k_{57}k_{47} \oplus k_{60}k_{59}k_{57}k_{47} \oplus$$

$$k_{78}k_{58}k_{57}k_{47} \oplus k_{76}k_{58}k_{57}k_{47} \oplus k_{77}k_{76}k_{58}k_{57}k_{47} \oplus k_{75}k_{74}k_{58}k_{57}k_{47} \oplus$$

$$k_{72}k_{58}k_{57}k_{47} \oplus k_{71}k_{70}k_{58}k_{57}k_{47} \oplus k_{59}k_{58}k_{57}k_{47} \oplus k_{79}k_{78}k_{56}k_{47} \oplus$$

$$k_{77}k_{56}k_{47} \oplus k_{75}k_{56}k_{47} \oplus k_{76}k_{75}k_{56}k_{47} \oplus k_{73}k_{56}k_{47} \oplus k_{74}k_{73}k_{56}k_{47} \oplus$$

$$k_{72}k_{71}k_{56}k_{47} \oplus k_{62}k_{56}k_{47} \oplus k_{60}k_{56}k_{47} \oplus k_{59}k_{58}k_{56}k_{47} \oplus k_{57}k_{56}k_{47} \oplus$$

$$k_{62}k_{55}k_{47} \oplus k_{61}k_{60}k_{55}k_{47} \oplus k_{56}k_{55}k_{47} \oplus k_{73}k_{56}k_{55}k_{47} \oplus k_{72}k_{71}k_{56}k_{55}k_{47} \oplus$$

$$k_{62}k_{56}k_{55}k_{47} \oplus k_{54}k_{47} \oplus k_{66}k_{54}k_{47} \oplus k_{79}k_{78}k_{55}k_{54}k_{47} \oplus k_{78}k_{53}k_{47} \oplus$$

$$k_{76}k_{53}k_{47} \oplus k_{77}k_{76}k_{53}k_{47} \oplus k_{75}k_{74}k_{53}k_{47} \oplus k_{56}k_{53}k_{47} \oplus k_{55}k_{54}k_{53}k_{47} \oplus$$

$$k_{58}k_{52}k_{47} \oplus k_{57}k_{52}k_{47} \oplus k_{79}k_{78}k_{51}k_{47} \oplus k_{58}k_{51}k_{47} \oplus k_{57}k_{51}k_{47} \oplus$$

$$k_{58}k_{57}k_{51}k_{47} \oplus k_{53}k_{51}k_{47} \oplus k_{50}k_{47} \oplus k_{76}k_{50}k_{47} \oplus k_{75}k_{74}k_{50}k_{47} \oplus$$

$$k_{58}k_{50}k_{47} \oplus k_{56}k_{50}k_{47} \oplus k_{49}k_{47} \oplus k_{78}k_{49}k_{47} \oplus k_{79}k_{78}k_{49}k_{47} \oplus k_{77}k_{49}k_{47} \oplus$$

$$k_{76}k_{49}k_{47} \oplus k_{77}k_{76}k_{49}k_{47} \oplus k_{76}k_{75}k_{49}k_{47} \oplus k_{75}k_{74}k_{49}k_{47} \oplus k_{58}k_{49}k_{47} \oplus$$

$$k_{75}k_{58}k_{49}k_{47} \oplus k_{74}k_{73}k_{58}k_{49}k_{47} \oplus k_{57}k_{49}k_{47} \oplus k_{58}k_{57}k_{49}k_{47} \oplus k_{53}k_{49}k_{47} \oplus$$

$$k_{51}k_{49}k_{47} \oplus k_{48}k_{47} \oplus k_{78}k_{48}k_{47} \oplus k_{77}k_{48}k_{47} \oplus k_{76}k_{48}k_{47} \oplus$$

$$k_{79}k_{78}k_{76}k_{48}k_{47} \oplus k_{77}k_{76}k_{48}k_{47} \oplus k_{79}k_{78}k_{77}k_{76}k_{48}k_{47} \oplus k_{76}k_{75}k_{48}k_{47} \oplus$$

$$k_{78}k_{74}k_{48}k_{47} \oplus k_{76}k_{74}k_{48}k_{47} \oplus k_{77}k_{76}k_{74}k_{48}k_{47} \oplus k_{79}k_{78}k_{75}k_{74}k_{48}k_{47} \oplus$$

$$k_{73}k_{48}k_{47} \oplus k_{78}k_{73}k_{48}k_{47} \oplus k_{76}k_{73}k_{48}k_{47} \oplus k_{77}k_{76}k_{73}k_{48}k_{47} \oplus$$

$$k_{75}k_{74}k_{73}k_{48}k_{47} \oplus k_{72}k_{48}k_{47} \oplus k_{76}k_{72}k_{48}k_{47} \oplus k_{75}k_{74}k_{72}k_{48}k_{47} \oplus$$

$$k_{78}k_{73}k_{72}k_{48}k_{47} \oplus k_{76}k_{73}k_{72}k_{48}k_{47} \oplus k_{77}k_{76}k_{73}k_{72}k_{48}k_{47} \oplus$$

$$k_{75}k_{74}k_{73}k_{72}k_{48}k_{47} \oplus k_{78}k_{71}k_{48}k_{47} \oplus k_{79}k_{78}k_{71}k_{48}k_{47} \oplus k_{77}k_{76}k_{71}k_{48}k_{47} \oplus$$

$$k_{72}k_{71}k_{48}k_{47} \oplus k_{78}k_{72}k_{71}k_{48}k_{47} \oplus k_{76}k_{72}k_{71}k_{48}k_{47} \oplus k_{77}k_{76}k_{72}k_{71}k_{48}k_{47} \oplus$$

$$k_{75}k_{74}k_{72}k_{71}k_{48}k_{47} \oplus k_{71}k_{70}k_{48}k_{47} \oplus k_{76}k_{71}k_{70}k_{48}k_{47} \oplus$$

$$k_{75}k_{74}k_{71}k_{70}k_{48}k_{47} \oplus k_{78}k_{70}k_{69}k_{48}k_{47} \oplus k_{79}k_{78}k_{70}k_{69}k_{48}k_{47} \oplus$$

$$k_{77}k_{76}k_{70}k_{69}k_{48}k_{47} \oplus k_{72}k_{68}k_{48}k_{47} \oplus k_{71}k_{70}k_{68}k_{48}k_{47} \oplus k_{66}k_{48}k_{47} \oplus$$

$$k_{64}k_{48}k_{47} \oplus k_{79}k_{78}k_{64}k_{48}k_{47} \oplus k_{71}k_{64}k_{48}k_{47} \oplus k_{70}k_{69}k_{64}k_{48}k_{47} \oplus$$

$$k_{67}k_{64}k_{48}k_{47} \oplus k_{66}k_{65}k_{64}k_{48}k_{47} \oplus k_{61}k_{48}k_{47} \oplus k_{78}k_{61}k_{48}k_{47} \oplus$$

$$k_{77}k_{76}k_{61}k_{48}k_{47} \oplus k_{79}k_{78}k_{77}k_{76}k_{61}k_{48}k_{47} \oplus k_{62}k_{61}k_{48}k_{47} \oplus k_{60}k_{48}k_{47} \oplus$$

$$k_{64}k_{60}k_{48}k_{47} \oplus k_{78}k_{59}k_{48}k_{47} \oplus k_{77}k_{76}k_{59}k_{48}k_{47} \oplus k_{71}k_{59}k_{48}k_{47} \oplus$$

$$k_{70}k_{69}k_{59}k_{48}k_{47} \oplus k_{60}k_{59}k_{48}k_{47} \oplus k_{78}k_{60}k_{59}k_{48}k_{47} \oplus k_{77}k_{76}k_{60}k_{59}k_{48}k_{47} \oplus$$

$$k_{79}k_{78}k_{77}k_{76}k_{60}k_{59}k_{48}k_{47} \oplus k_{62}k_{60}k_{59}k_{48}k_{47} \oplus k_{58}k_{48}k_{47} \oplus k_{78}k_{58}k_{48}k_{47} \oplus$$

$$k_{76}k_{58}k_{48}k_{47} \oplus k_{77}k_{76}k_{58}k_{48}k_{47} \oplus k_{75}k_{74}k_{58}k_{48}k_{47} \oplus k_{72}k_{58}k_{48}k_{47} \oplus$$

$$k_{71}k_{58}k_{48}k_{47} \oplus k_{71}k_{70}k_{58}k_{48}k_{47} \oplus k_{70}k_{69}k_{58}k_{48}k_{47} \oplus k_{64}k_{58}k_{48}k_{47} \oplus$$

$$k_{64}k_{60}k_{58}k_{48}k_{47} \oplus k_{59}k_{58}k_{48}k_{47} \oplus k_{64}k_{59}k_{58}k_{48}k_{47} \oplus k_{78}k_{57}k_{48}k_{47} \oplus$$

$$k_{77}k_{76}k_{57}k_{48}k_{47} \oplus k_{72}k_{57}k_{48}k_{47} \oplus k_{71}k_{57}k_{48}k_{47} \oplus k_{71}k_{70}k_{57}k_{48}k_{47} \oplus$$

$$k_{70}k_{69}k_{57}k_{48}k_{47} \oplus k_{64}k_{57}k_{48}k_{47} \oplus k_{61}k_{57}k_{48}k_{47} \oplus k_{60}k_{57}k_{48}k_{47} \oplus$$

$$k_{60}k_{59}k_{57}k_{48}k_{47} \oplus k_{78}k_{58}k_{57}k_{48}k_{47} \oplus k_{77}k_{76}k_{58}k_{57}k_{48}k_{47} \oplus$$

$$k_{71}k_{58}k_{57}k_{48}k_{47} \oplus k_{70}k_{69}k_{58}k_{57}k_{48}k_{47} \oplus k_{64}k_{58}k_{57}k_{48}k_{47} \oplus$$

$$k_{59}k_{58}k_{57}k_{48}k_{47} \oplus k_{56}k_{48}k_{47} \oplus k_{72}k_{56}k_{48}k_{47} \oplus k_{79}k_{78}k_{72}k_{56}k_{48}k_{47} \oplus$$

$$k_{71}k_{70}k_{56}k_{48}k_{47} \oplus k_{79}k_{78}k_{71}k_{70}k_{56}k_{48}k_{47} \oplus k_{59}k_{56}k_{48}k_{47} \oplus$$

$$k_{58}k_{57}k_{56}k_{48}k_{47} \oplus k_{72}k_{55}k_{48}k_{47} \oplus k_{71}k_{70}k_{55}k_{48}k_{47} \oplus k_{66}k_{54}k_{48}k_{47} \oplus$$

$$k_{53}k_{48}k_{47} \oplus k_{78}k_{53}k_{48}k_{47} \oplus k_{76}k_{53}k_{48}k_{47} \oplus k_{77}k_{76}k_{53}k_{48}k_{47} \oplus$$

$$k_{75}k_{74}k_{53}k_{48}k_{47} \oplus k_{71}k_{53}k_{48}k_{47} \oplus k_{70}k_{69}k_{53}k_{48}k_{47} \oplus k_{64}k_{53}k_{48}k_{47} \oplus$$

$k_{61}k_{53}k_{48}k_{47} \oplus k_{78}k_{61}k_{53}k_{48}k_{47} \oplus k_{77}k_{76}k_{61}k_{53}k_{48}k_{47} \oplus k_{60}k_{59}k_{53}k_{48}k_{47}\oplus$

$k_{78}k_{60}k_{59}k_{53}k_{48}k_{47} \oplus k_{77}k_{76}k_{60}k_{59}k_{53}k_{48}k_{47} \oplus k_{72}k_{56}k_{53}k_{48}k_{47}\oplus$

$k_{71}k_{70}k_{56}k_{53}k_{48}k_{47} \oplus k_{51}k_{48}k_{47} \oplus k_{79}k_{78}k_{51}k_{48}k_{47} \oplus k_{74}k_{51}k_{48}k_{47}\oplus$

$k_{73}k_{51}k_{48}k_{47} \oplus k_{73}k_{72}k_{51}k_{48}k_{47} \oplus k_{71}k_{51}k_{48}k_{47} \oplus k_{72}k_{71}k_{51}k_{48}k_{47}\oplus$

$k_{70}k_{69}k_{51}k_{48}k_{47} \oplus k_{61}k_{51}k_{48}k_{47} \oplus k_{79}k_{78}k_{61}k_{51}k_{48}k_{47} \oplus k_{59}k_{51}k_{48}k_{47}\oplus$

$k_{60}k_{59}k_{51}k_{48}k_{47} \oplus k_{79}k_{78}k_{60}k_{59}k_{51}k_{48}k_{47} \oplus k_{58}k_{51}k_{48}k_{47} \oplus k_{57}k_{51}k_{48}k_{47}\oplus$

$k_{58}k_{57}k_{51}k_{48}k_{47} \oplus k_{53}k_{51}k_{48}k_{47} \oplus k_{61}k_{53}k_{51}k_{48}k_{47} \oplus k_{60}k_{59}k_{53}k_{51}k_{48}k_{47}\oplus$

$k_{50}k_{48}k_{47} \oplus k_{79}k_{78}k_{49}k_{48}k_{47} \oplus k_{74}k_{49}k_{48}k_{47} \oplus k_{73}k_{49}k_{48}k_{47}\oplus$

$k_{72}k_{49}k_{48}k_{47} \oplus k_{73}k_{72}k_{49}k_{48}k_{47} \oplus k_{72}k_{71}k_{49}k_{48}k_{47} \oplus k_{71}k_{70}k_{49}k_{48}k_{47}\oplus$

$k_{58}k_{49}k_{48}k_{47} \oplus k_{53}k_{49}k_{48}k_{47} \oplus k_{46} \oplus k_{79}k_{46} \oplus k_{79}k_{78}k_{46} \oplus k_{77}k_{46}\oplus$

$k_{78}k_{77}k_{46} \oplus k_{77}k_{76}k_{46} \oplus k_{75}k_{46} \oplus k_{74}k_{46} \oplus k_{77}k_{75}k_{74}k_{46} \oplus k_{76}k_{75}k_{74}k_{46}\oplus$

$k_{73}k_{46} \oplus k_{74}k_{73}k_{46} \oplus k_{72}k_{46} \oplus k_{78}k_{72}k_{46} \oplus k_{76}k_{72}k_{46} \oplus k_{76}k_{75}k_{72}k_{46}\oplus$

$k_{75}k_{74}k_{72}k_{46} \oplus k_{77}k_{75}k_{74}k_{72}k_{46} \oplus k_{76}k_{75}k_{74}k_{72}k_{46} \oplus k_{73}k_{72}k_{46} \oplus k_{71}k_{46}\oplus$

$k_{72}k_{71}k_{46} \oplus k_{71}k_{70}k_{46} \oplus k_{78}k_{71}k_{70}k_{46} \oplus k_{76}k_{71}k_{70}k_{46} \oplus k_{76}k_{75}k_{71}k_{70}k_{46}\oplus$

$k_{75}k_{74}k_{71}k_{70}k_{46} \oplus k_{77}k_{75}k_{74}k_{71}k_{70}k_{46} \oplus k_{76}k_{75}k_{74}k_{71}k_{70}k_{46} \oplus k_{69}k_{46}\oplus$

$k_{74}k_{69}k_{46} \oplus k_{73}k_{72}k_{69}k_{46} \oplus k_{70}k_{69}k_{46} \oplus k_{68}k_{67}k_{46} \oplus k_{74}k_{68}k_{67}k_{46}\oplus$

$k_{73}k_{72}k_{68}k_{67}k_{46} \oplus k_{66}k_{46} \oplus k_{79}k_{64}k_{46} \oplus k_{78}k_{77}k_{64}k_{46} \oplus k_{75}k_{72}k_{64}k_{46}\oplus$

$k_{74}k_{73}k_{72}k_{64}k_{46} \oplus k_{75}k_{71}k_{70}k_{64}k_{46} \oplus k_{74}k_{73}k_{71}k_{70}k_{64}k_{46} \oplus k_{63}k_{46}\oplus$

$k_{72}k_{63}k_{46} \oplus k_{71}k_{70}k_{63}k_{46} \oplus k_{62}k_{46} \oplus k_{61}k_{46} \oplus k_{79}k_{78}k_{61}k_{46} \oplus k_{77}k_{61}k_{46}\oplus$

$k_{78}k_{76}k_{61}k_{46} \oplus k_{77}k_{76}k_{61}k_{46} \oplus k_{75}k_{61}k_{46} \oplus k_{74}k_{61}k_{46} \oplus k_{75}k_{74}k_{61}k_{46}\oplus$

$k_{78}k_{75}k_{74}k_{61}k_{46} \oplus k_{77}k_{76}k_{75}k_{74}k_{61}k_{46} \oplus k_{74}k_{73}k_{61}k_{46} \oplus k_{76}k_{74}k_{73}k_{61}k_{46}\oplus$

$k_{75}k_{74}k_{73}k_{61}k_{46} \oplus k_{73}k_{72}k_{61}k_{46} \oplus k_{64}k_{61}k_{46} \oplus k_{72}k_{62}k_{61}k_{46}\oplus$

$k_{71}k_{70}k_{62}k_{61}k_{46} \oplus k_{78}k_{60}k_{46} \oplus k_{79}k_{78}k_{60}k_{46} \oplus k_{77}k_{76}k_{60}k_{46} \oplus k_{74}k_{60}k_{46}\oplus$

$k_{72}k_{60}k_{46} \oplus k_{73}k_{72}k_{60}k_{46} \oplus k_{71}k_{70}k_{60}k_{46} \oplus k_{64}k_{60}k_{46} \oplus k_{61}k_{60}k_{46}\oplus$

$k_{64}k_{59}k_{46} \oplus k_{60}k_{59}k_{46} \oplus k_{79}k_{78}k_{60}k_{59}k_{46} \oplus k_{77}k_{60}k_{59}k_{46}\oplus$

$k_{78}k_{76}k_{60}k_{59}k_{46} \oplus k_{77}k_{76}k_{60}k_{59}k_{46} \oplus k_{75}k_{60}k_{59}k_{46} \oplus k_{74}k_{60}k_{59}k_{46}\oplus$

$k_{75}k_{74}k_{60}k_{59}k_{46} \oplus k_{78}k_{75}k_{74}k_{60}k_{59}k_{46} \oplus k_{77}k_{76}k_{75}k_{74}k_{60}k_{59}k_{46}\oplus$

$k_{74}k_{73}k_{60}k_{59}k_{46} \oplus k_{76}k_{74}k_{73}k_{60}k_{59}k_{46} \oplus k_{75}k_{74}k_{73}k_{60}k_{59}k_{46}\oplus$

$k_{73}k_{72}k_{60}k_{59}k_{46} \oplus k_{64}k_{60}k_{59}k_{46} \oplus k_{62}k_{60}k_{59}k_{46} \oplus k_{61}k_{60}k_{59}k_{46}\oplus$

$k_{78}k_{58}k_{46} \oplus k_{77}k_{76}k_{58}k_{46} \oplus k_{74}k_{58}k_{46} \oplus k_{73}k_{58}k_{46} \oplus k_{72}k_{58}k_{46}\oplus$

$k_{73}k_{72}k_{58}k_{46} \oplus k_{72}k_{71}k_{58}k_{46} \oplus k_{71}k_{70}k_{58}k_{46} \oplus k_{64}k_{58}k_{46} \oplus k_{79}k_{64}k_{58}k_{46}\oplus$

$k_{78}k_{77}k_{64}k_{58}k_{46} \oplus k_{75}k_{64}k_{58}k_{46} \oplus k_{74}k_{73}k_{64}k_{58}k_{46} \oplus k_{61}k_{58}k_{46}\oplus$

$k_{78}k_{59}k_{58}k_{46} \oplus k_{79}k_{78}k_{59}k_{58}k_{46} \oplus k_{77}k_{76}k_{59}k_{58}k_{46} \oplus k_{74}k_{59}k_{58}k_{46}\oplus$

$k_{72}k_{59}k_{58}k_{46} \oplus k_{73}k_{72}k_{59}k_{58}k_{46} \oplus k_{71}k_{70}k_{59}k_{58}k_{46} \oplus k_{64}k_{59}k_{58}k_{46}\oplus$

$k_{61}k_{59}k_{58}k_{46} \oplus k_{60}k_{59}k_{58}k_{46} \oplus k_{57}k_{46} \oplus k_{76}k_{57}k_{46} \oplus k_{74}k_{57}k_{46}\oplus$

$k_{75}k_{74}k_{57}k_{46} \oplus k_{73}k_{72}k_{57}k_{46} \oplus k_{64}k_{58}k_{57}k_{46} \oplus k_{76}k_{56}k_{46} \oplus k_{76}k_{75}k_{56}k_{46}\oplus$

$k_{74}k_{56}k_{46} \oplus k_{76}k_{74}k_{73}k_{56}k_{46} \oplus k_{75}k_{74}k_{73}k_{56}k_{46} \oplus k_{72}k_{56}k_{46} \oplus$

$k_{77}k_{72}k_{56}k_{46} \oplus k_{76}k_{75}k_{72}k_{56}k_{46} \oplus k_{73}k_{72}k_{56}k_{46} \oplus k_{71}k_{70}k_{56}k_{46} \oplus$

$k_{77}k_{71}k_{70}k_{56}k_{46} \oplus k_{76}k_{75}k_{71}k_{70}k_{56}k_{46} \oplus k_{62}k_{56}k_{46} \oplus k_{61}k_{56}k_{46} \oplus$

$k_{78}k_{61}k_{56}k_{46} \oplus k_{77}k_{76}k_{61}k_{56}k_{46} \oplus k_{64}k_{61}k_{56}k_{46} \oplus k_{60}k_{56}k_{46} \oplus$

$k_{78}k_{60}k_{56}k_{46} \oplus k_{79}k_{78}k_{60}k_{56}k_{46} \oplus k_{77}k_{76}k_{60}k_{56}k_{46} \oplus k_{64}k_{60}k_{56}k_{46} \oplus$

$k_{61}k_{60}k_{56}k_{46} \oplus k_{60}k_{59}k_{56}k_{46} \oplus k_{78}k_{60}k_{59}k_{56}k_{46} \oplus k_{77}k_{76}k_{60}k_{59}k_{56}k_{46} \oplus$

$k_{64}k_{60}k_{59}k_{56}k_{46} \oplus k_{78}k_{59}k_{58}k_{56}k_{46} \oplus k_{77}k_{76}k_{59}k_{58}k_{56}k_{46} \oplus$

$k_{64}k_{59}k_{58}k_{56}k_{46} \oplus k_{55}k_{46} \oplus k_{72}k_{55}k_{46} \oplus k_{71}k_{70}k_{55}k_{46} \oplus k_{56}k_{55}k_{46} \oplus$

$k_{74}k_{56}k_{55}k_{46} \oplus k_{73}k_{72}k_{56}k_{55}k_{46} \oplus k_{54}k_{46} \oplus k_{61}k_{54}k_{46} \oplus k_{60}k_{59}k_{54}k_{46} \oplus$

$k_{60}k_{55}k_{54}k_{46} \oplus k_{79}k_{78}k_{60}k_{55}k_{54}k_{46} \oplus k_{53}k_{46} \oplus k_{61}k_{53}k_{46} \oplus k_{60}k_{53}k_{46} \oplus$

$k_{60}k_{59}k_{53}k_{46} \oplus k_{59}k_{58}k_{53}k_{46} \oplus k_{60}k_{56}k_{53}k_{46} \oplus k_{60}k_{55}k_{54}k_{53}k_{46} \oplus k_{52}k_{46} \oplus$

$k_{64}k_{52}k_{46} \oplus k_{64}k_{58}k_{52}k_{46} \oplus k_{72}k_{51}k_{46} \oplus k_{71}k_{70}k_{51}k_{46} \oplus k_{76}k_{61}k_{51}k_{46} \oplus$

$k_{75}k_{74}k_{61}k_{51}k_{46} \oplus k_{60}k_{51}k_{46} \oplus k_{76}k_{60}k_{59}k_{51}k_{46} \oplus k_{75}k_{74}k_{60}k_{59}k_{51}k_{46} \oplus$

$k_{58}k_{51}k_{46} \oplus k_{59}k_{58}k_{51}k_{46} \oplus k_{61}k_{56}k_{51}k_{46} \oplus k_{60}k_{56}k_{51}k_{46} \oplus$

$k_{60}k_{59}k_{56}k_{51}k_{46} \oplus k_{59}k_{58}k_{56}k_{51}k_{46} \oplus k_{50}k_{46} \oplus k_{76}k_{50}k_{46} \oplus k_{75}k_{74}k_{50}k_{46} \oplus$

$k_{76}k_{72}k_{50}k_{46} \oplus k_{75}k_{74}k_{72}k_{50}k_{46} \oplus k_{76}k_{71}k_{70}k_{50}k_{46} \oplus k_{75}k_{74}k_{71}k_{70}k_{50}k_{46} \oplus$

$k_{61}k_{50}k_{46} \oplus k_{60}k_{59}k_{50}k_{46} \oplus k_{72}k_{56}k_{50}k_{46} \oplus k_{71}k_{70}k_{56}k_{50}k_{46} \oplus k_{78}k_{49}k_{46} \oplus$

$k_{77}k_{49}k_{46} \oplus k_{76}k_{49}k_{46} \oplus k_{77}k_{76}k_{49}k_{46} \oplus k_{76}k_{75}k_{49}k_{46} \oplus k_{75}k_{74}k_{49}k_{46} \oplus$

$k_{72}k_{49}k_{46} \oplus k_{77}k_{72}k_{49}k_{46} \oplus k_{76}k_{75}k_{72}k_{49}k_{46} \oplus k_{71}k_{70}k_{49}k_{46} \oplus$

$k_{77}k_{71}k_{70}k_{49}k_{46} \oplus k_{76}k_{75}k_{71}k_{70}k_{49}k_{46} \oplus k_{78}k_{61}k_{49}k_{46} \oplus k_{77}k_{76}k_{61}k_{49}k_{46} \oplus$

$k_{75}k_{61}k_{49}k_{46} \oplus k_{74}k_{73}k_{61}k_{49}k_{46} \oplus k_{78}k_{60}k_{59}k_{49}k_{46} \oplus k_{77}k_{76}k_{60}k_{59}k_{49}k_{46} \oplus$

$k_{75}k_{60}k_{59}k_{49}k_{46} \oplus k_{74}k_{73}k_{60}k_{59}k_{49}k_{46} \oplus k_{57}k_{49}k_{46} \oplus k_{56}k_{49}k_{46} \oplus$

$k_{75}k_{56}k_{49}k_{46} \oplus k_{74}k_{73}k_{56}k_{49}k_{46} \oplus k_{51}k_{49}k_{46} \oplus k_{61}k_{51}k_{49}k_{46} \oplus$

$k_{60}k_{59}k_{51}k_{49}k_{46} \oplus k_{72}k_{50}k_{49}k_{46} \oplus k_{71}k_{70}k_{50}k_{49}k_{46} \oplus k_{72}k_{64}k_{48}k_{46} \oplus$

$k_{71}k_{70}k_{64}k_{48}k_{46} \oplus k_{76}k_{61}k_{48}k_{46} \oplus k_{75}k_{74}k_{61}k_{48}k_{46} \oplus k_{60}k_{48}k_{46} \oplus$

$k_{76}k_{60}k_{59}k_{48}k_{46} \oplus k_{75}k_{74}k_{60}k_{59}k_{48}k_{46} \oplus k_{64}k_{58}k_{48}k_{46} \oplus k_{59}k_{58}k_{48}k_{46} \oplus$

$k_{76}k_{56}k_{48}k_{46} \oplus k_{75}k_{74}k_{56}k_{48}k_{46} \oplus k_{61}k_{49}k_{48}k_{46} \oplus k_{60}k_{59}k_{49}k_{48}k_{46} \oplus$

$k_{56}k_{49}k_{48}k_{46} \oplus k_{47}k_{46} \oplus k_{76}k_{47}k_{46} \oplus k_{74}k_{47}k_{46} \oplus k_{79}k_{78}k_{74}k_{47}k_{46} \oplus$

$k_{75}k_{74}k_{47}k_{46} \oplus k_{73}k_{47}k_{46} \oplus k_{73}k_{72}k_{47}k_{46} \oplus k_{79}k_{78}k_{73}k_{72}k_{47}k_{46} \oplus$

$k_{71}k_{47}k_{46} \oplus k_{74}k_{71}k_{47}k_{46} \oplus k_{72}k_{71}k_{47}k_{46} \oplus k_{73}k_{72}k_{71}k_{47}k_{46} \oplus$

$k_{70}k_{69}k_{47}k_{46} \oplus k_{74}k_{70}k_{69}k_{47}k_{46} \oplus k_{73}k_{72}k_{70}k_{69}k_{47}k_{46} \oplus k_{72}k_{68}k_{47}k_{46} \oplus$

$k_{71}k_{70}k_{68}k_{47}k_{46} \oplus k_{74}k_{67}k_{47}k_{46} \oplus k_{73}k_{72}k_{67}k_{47}k_{46} \oplus k_{66}k_{47}k_{46} \oplus$

$k_{74}k_{66}k_{65}k_{47}k_{46} \oplus k_{73}k_{72}k_{66}k_{65}k_{47}k_{46} \oplus k_{65}k_{64}k_{47}k_{46} \oplus k_{61}k_{47}k_{46} \oplus$

$k_{74}k_{61}k_{47}k_{46} \oplus k_{73}k_{61}k_{47}k_{46} \oplus k_{73}k_{72}k_{61}k_{47}k_{46} \oplus k_{72}k_{71}k_{61}k_{47}k_{46} \oplus$

$k_{67}k_{61}k_{47}k_{46} \oplus k_{66}k_{65}k_{61}k_{47}k_{46} \oplus k_{74}k_{60}k_{47}k_{46} \oplus k_{73}k_{60}k_{47}k_{46} \oplus$

$k_{72}k_{60}k_{47}k_{46} \oplus k_{73}k_{72}k_{60}k_{47}k_{46} \oplus k_{72}k_{71}k_{60}k_{47}k_{46} \oplus k_{71}k_{70}k_{60}k_{47}k_{46} \oplus$

$k_{59}k_{47}k_{46} \oplus k_{74}k_{59}k_{47}k_{46} \oplus k_{73}k_{72}k_{59}k_{47}k_{46} \oplus k_{60}k_{59}k_{47}k_{46} \oplus$

$k_{74}k_{60}k_{59}k_{47}k_{46} \oplus k_{73}k_{60}k_{59}k_{47}k_{46} \oplus k_{73}k_{72}k_{60}k_{59}k_{47}k_{46} \oplus$

$k_{72}k_{71}k_{60}k_{59}k_{47}k_{46} \oplus k_{67}k_{60}k_{59}k_{47}k_{46} \oplus k_{66}k_{65}k_{60}k_{59}k_{47}k_{46} \oplus$

$k_{74}k_{58}k_{47}k_{46} \oplus k_{73}k_{72}k_{58}k_{47}k_{46} \oplus k_{72}k_{60}k_{58}k_{47}k_{46} \oplus k_{71}k_{70}k_{60}k_{58}k_{47}k_{46} \oplus$

$k_{74}k_{59}k_{58}k_{47}k_{46} \oplus k_{73}k_{59}k_{58}k_{47}k_{46} \oplus k_{72}k_{59}k_{58}k_{47}k_{46} \oplus$

$k_{73}k_{72}k_{59}k_{58}k_{47}k_{46} \oplus k_{72}k_{71}k_{59}k_{58}k_{47}k_{46} \oplus k_{71}k_{70}k_{59}k_{58}k_{47}k_{46} \oplus$

$k_{57}k_{47}k_{46} \oplus k_{72}k_{57}k_{47}k_{46} \oplus k_{71}k_{70}k_{57}k_{47}k_{46} \oplus k_{58}k_{57}k_{47}k_{46} \oplus$

$k_{74}k_{58}k_{57}k_{47}k_{46} \oplus k_{72}k_{58}k_{57}k_{47}k_{46} \oplus k_{73}k_{72}k_{58}k_{57}k_{47}k_{46} \oplus$

$k_{71}k_{70}k_{58}k_{57}k_{47}k_{46} \oplus k_{57}k_{56}k_{47}k_{46} \oplus k_{55}k_{47}k_{46} \oplus k_{74}k_{53}k_{47}k_{46} \oplus$

$k_{73}k_{72}k_{53}k_{47}k_{46} \oplus k_{78}k_{48}k_{47}k_{46} \oplus k_{76}k_{48}k_{47}k_{46} \oplus k_{77}k_{76}k_{48}k_{47}k_{46} \oplus$

$k_{75}k_{74}k_{48}k_{47}k_{46} \oplus k_{51}k_{48}k_{47}k_{46} \oplus k_{49}k_{48}k_{47}k_{46} \oplus k_{45} \oplus k_{77}k_{76}k_{45} \oplus$

$k_{76}k_{75}k_{45} \oplus k_{74}k_{45} \oplus k_{77}k_{75}k_{74}k_{45} \oplus k_{76}k_{75}k_{74}k_{45} \oplus k_{73}k_{45} \oplus k_{78}k_{73}k_{45} \oplus$

$k_{76}k_{73}k_{45} \oplus k_{76}k_{75}k_{73}k_{45} \oplus k_{75}k_{74}k_{73}k_{45} \oplus k_{77}k_{75}k_{74}k_{73}k_{45} \oplus$

$k_{76}k_{75}k_{74}k_{73}k_{45} \oplus k_{73}k_{72}k_{45} \oplus k_{76}k_{71}k_{45} \oplus k_{75}k_{74}k_{71}k_{45} \oplus k_{72}k_{71}k_{45} \oplus$

$k_{78}k_{72}k_{71}k_{45} \oplus k_{76}k_{72}k_{71}k_{45} \oplus k_{76}k_{75}k_{72}k_{71}k_{45} \oplus k_{75}k_{74}k_{72}k_{71}k_{45} \oplus$

$k_{77}k_{75}k_{74}k_{72}k_{71}k_{45} \oplus k_{76}k_{75}k_{74}k_{72}k_{71}k_{45} \oplus k_{69}k_{45} \oplus k_{76}k_{69}k_{45} \oplus$

$k_{75}k_{74}k_{69}k_{45} \oplus k_{76}k_{70}k_{69}k_{45} \oplus k_{75}k_{74}k_{70}k_{69}k_{45} \oplus k_{68}k_{45} \oplus k_{67}k_{45} \oplus$

$k_{68}k_{67}k_{45} \oplus k_{76}k_{68}k_{67}k_{45} \oplus k_{75}k_{74}k_{68}k_{67}k_{45} \oplus k_{65}k_{45} \oplus k_{64}k_{45} \oplus$

$k_{75}k_{73}k_{64}k_{45} \oplus k_{74}k_{73}k_{64}k_{45} \oplus k_{75}k_{72}k_{71}k_{64}k_{45} \oplus k_{74}k_{73}k_{72}k_{71}k_{64}k_{45} \oplus$

$k_{63}k_{45} \oplus k_{73}k_{63}k_{45} \oplus k_{72}k_{71}k_{63}k_{45} \oplus k_{64}k_{63}k_{45} \oplus k_{66}k_{64}k_{63}k_{45} \oplus$

$k_{65}k_{64}k_{63}k_{45} \oplus k_{71}k_{61}k_{45} \oplus k_{70}k_{69}k_{61}k_{45} \oplus k_{62}k_{61}k_{45} \oplus k_{73}k_{62}k_{61}k_{45} \oplus$

$k_{72}k_{71}k_{62}k_{61}k_{45} \oplus k_{73}k_{60}k_{45} \oplus k_{72}k_{71}k_{60}k_{45} \oplus k_{71}k_{60}k_{59}k_{45} \oplus$

$k_{70}k_{69}k_{60}k_{59}k_{45} \oplus k_{74}k_{58}k_{45} \oplus k_{73}k_{58}k_{45} \oplus k_{73}k_{72}k_{58}k_{45} \oplus k_{72}k_{71}k_{58}k_{45} \oplus$

$k_{60}k_{58}k_{45} \oplus k_{73}k_{59}k_{58}k_{45} \oplus k_{72}k_{71}k_{59}k_{58}k_{45} \oplus k_{57}k_{45} \oplus k_{76}k_{57}k_{45} \oplus$

$k_{75}k_{74}k_{57}k_{45} \oplus k_{78}k_{56}k_{45} \oplus k_{77}k_{56}k_{45} \oplus k_{79}k_{78}k_{76}k_{56}k_{45} \oplus k_{77}k_{76}k_{56}k_{45} \oplus$

$k_{75}k_{74}k_{56}k_{45} \oplus k_{79}k_{78}k_{75}k_{74}k_{56}k_{45} \oplus k_{73}k_{56}k_{45} \oplus k_{77}k_{73}k_{56}k_{45} \oplus$

$k_{76}k_{75}k_{73}k_{56}k_{45} \oplus k_{76}k_{74}k_{73}k_{56}k_{45} \oplus k_{75}k_{74}k_{73}k_{56}k_{45} \oplus k_{72}k_{71}k_{56}k_{45} \oplus$

$k_{77}k_{72}k_{71}k_{56}k_{45} \oplus k_{76}k_{75}k_{72}k_{71}k_{56}k_{45} \oplus k_{64}k_{56}k_{45} \oplus k_{62}k_{56}k_{45} \oplus$

$k_{60}k_{56}k_{45} \oplus k_{61}k_{60}k_{56}k_{45} \oplus k_{59}k_{58}k_{56}k_{45} \oplus k_{55}k_{45} \oplus k_{73}k_{55}k_{45} \oplus$

$k_{72}k_{71}k_{55}k_{45} \oplus k_{61}k_{55}k_{45} \oplus k_{60}k_{59}k_{55}k_{45} \oplus k_{56}k_{55}k_{45} \oplus k_{76}k_{56}k_{55}k_{45} \oplus$

$k_{75}k_{74}k_{56}k_{55}k_{45} \oplus k_{54}k_{45} \oplus k_{76}k_{56}k_{53}k_{45} \oplus k_{75}k_{74}k_{56}k_{53}k_{45} \oplus k_{52}k_{45} \oplus$

$k_{51}k_{45} \oplus k_{73}k_{51}k_{45} \oplus k_{72}k_{71}k_{51}k_{45} \oplus k_{56}k_{51}k_{45} \oplus k_{76}k_{50}k_{45} \oplus$

$k_{75}k_{74}k_{50}k_{45} \oplus k_{76}k_{73}k_{50}k_{45} \oplus k_{75}k_{74}k_{73}k_{50}k_{45} \oplus k_{76}k_{72}k_{71}k_{50}k_{45} \oplus$

$k_{75}k_{74}k_{72}k_{71}k_{50}k_{45} \oplus k_{56}k_{50}k_{45} \oplus k_{73}k_{56}k_{50}k_{45} \oplus k_{72}k_{71}k_{56}k_{50}k_{45} \oplus$

$k_{51}k_{50}k_{45} \oplus k_{77}k_{49}k_{45} \oplus k_{76}k_{49}k_{45} \oplus k_{76}k_{75}k_{49}k_{45} \oplus k_{75}k_{74}k_{49}k_{45} \oplus$

$k_{73}k_{49}k_{45} \oplus k_{77}k_{73}k_{49}k_{45} \oplus k_{76}k_{75}k_{73}k_{49}k_{45} \oplus k_{71}k_{49}k_{45} \oplus k_{72}k_{71}k_{49}k_{45} \oplus$

$k_{77}k_{72}k_{71}k_{49}k_{45} \oplus k_{76}k_{75}k_{72}k_{71}k_{49}k_{45} \oplus k_{69}k_{49}k_{45} \oplus k_{70}k_{69}k_{49}k_{45}\oplus$

$k_{68}k_{49}k_{45} \oplus k_{68}k_{67}k_{49}k_{45} \oplus k_{58}k_{49}k_{45} \oplus k_{56}k_{49}k_{45} \oplus k_{75}k_{56}k_{49}k_{45}\oplus$

$k_{74}k_{73}k_{56}k_{49}k_{45} \oplus k_{55}k_{49}k_{45} \oplus k_{56}k_{55}k_{49}k_{45} \oplus k_{73}k_{50}k_{49}k_{45}\oplus$

$k_{72}k_{71}k_{50}k_{49}k_{45} \oplus k_{68}k_{48}k_{45} \oplus k_{73}k_{64}k_{48}k_{45} \oplus k_{72}k_{71}k_{64}k_{48}k_{45}\oplus$

$k_{60}k_{48}k_{45} \oplus k_{60}k_{58}k_{48}k_{45} \oplus k_{59}k_{58}k_{48}k_{45} \oplus k_{57}k_{48}k_{45} \oplus k_{58}k_{57}k_{48}k_{45}\oplus$

$k_{76}k_{56}k_{48}k_{45} \oplus k_{75}k_{74}k_{56}k_{48}k_{45} \oplus k_{56}k_{49}k_{48}k_{45} \oplus k_{47}k_{45} \oplus k_{68}k_{47}k_{45}\oplus$

$k_{60}k_{47}k_{45} \oplus k_{58}k_{47}k_{45} \oplus k_{60}k_{58}k_{47}k_{45} \oplus k_{59}k_{58}k_{47}k_{45} \oplus k_{57}k_{47}k_{45}\oplus$

$k_{58}k_{57}k_{47}k_{45} \oplus k_{48}k_{47}k_{45} \oplus k_{76}k_{48}k_{47}k_{45} \oplus k_{75}k_{74}k_{48}k_{47}k_{45}\oplus$

$k_{68}k_{48}k_{47}k_{45} \oplus k_{58}k_{48}k_{47}k_{45} \oplus k_{57}k_{48}k_{47}k_{45} \oplus k_{56}k_{48}k_{47}k_{45}\oplus$

$k_{79}k_{78}k_{56}k_{48}k_{47}k_{45} \oplus k_{55}k_{48}k_{47}k_{45} \oplus k_{56}k_{53}k_{48}k_{47}k_{45} \oplus k_{49}k_{48}k_{47}k_{45}\oplus$

$k_{46}k_{45} \oplus k_{78}k_{46}k_{45} \oplus k_{76}k_{46}k_{45} \oplus k_{79}k_{78}k_{76}k_{46}k_{45} \oplus k_{79}k_{78}k_{77}k_{76}k_{46}k_{45}\oplus$

$k_{76}k_{75}k_{46}k_{45} \oplus k_{75}k_{74}k_{46}k_{45} \oplus k_{79}k_{78}k_{75}k_{74}k_{46}k_{45} \oplus k_{77}k_{75}k_{74}k_{46}k_{45}\oplus$

$k_{76}k_{75}k_{74}k_{46}k_{45} \oplus k_{71}k_{46}k_{45} \oplus k_{70}k_{69}k_{46}k_{45} \oplus k_{68}k_{46}k_{45} \oplus k_{72}k_{68}k_{46}k_{45}\oplus$

$k_{71}k_{70}k_{68}k_{46}k_{45} \oplus k_{66}k_{46}k_{45} \oplus k_{63}k_{46}k_{45} \oplus k_{62}k_{61}k_{46}k_{45} \oplus k_{60}k_{46}k_{45}\oplus$

$k_{72}k_{60}k_{46}k_{45} \oplus k_{71}k_{70}k_{60}k_{46}k_{45} \oplus k_{64}k_{60}k_{46}k_{45} \oplus k_{75}k_{64}k_{60}k_{46}k_{45}\oplus$

$k_{74}k_{73}k_{64}k_{60}k_{46}k_{45} \oplus k_{64}k_{59}k_{46}k_{45} \oplus k_{75}k_{64}k_{59}k_{46}k_{45}\oplus$

$k_{74}k_{73}k_{64}k_{59}k_{46}k_{45} \oplus k_{77}k_{58}k_{46}k_{45} \oplus k_{76}k_{58}k_{46}k_{45} \oplus k_{76}k_{74}k_{73}k_{58}k_{46}k_{45}\oplus$

$k_{75}k_{74}k_{73}k_{58}k_{46}k_{45} \oplus k_{64}k_{58}k_{46}k_{45} \oplus k_{75}k_{64}k_{58}k_{46}k_{45}\oplus$

$k_{74}k_{73}k_{64}k_{58}k_{46}k_{45} \oplus k_{72}k_{60}k_{58}k_{46}k_{45} \oplus k_{71}k_{70}k_{60}k_{58}k_{46}k_{45}\oplus$

$k_{64}k_{60}k_{58}k_{46}k_{45} \oplus k_{75}k_{64}k_{60}k_{58}k_{46}k_{45} \oplus k_{74}k_{73}k_{64}k_{60}k_{58}k_{46}k_{45}\oplus$

$k_{72}k_{59}k_{58}k_{46}k_{45} \oplus k_{71}k_{70}k_{59}k_{58}k_{46}k_{45} \oplus k_{64}k_{59}k_{58}k_{46}k_{45}\oplus$

$k_{75}k_{64}k_{59}k_{58}k_{46}k_{45} \oplus k_{74}k_{73}k_{64}k_{59}k_{58}k_{46}k_{45} \oplus k_{57}k_{46}k_{45} \oplus k_{78}k_{57}k_{46}k_{45}\oplus$

$k_{77}k_{76}k_{57}k_{46}k_{45} \oplus k_{72}k_{57}k_{46}k_{45} \oplus k_{71}k_{70}k_{57}k_{46}k_{45} \oplus k_{78}k_{58}k_{57}k_{46}k_{45}\oplus$

$k_{76}k_{58}k_{57}k_{46}k_{45} \oplus k_{77}k_{76}k_{58}k_{57}k_{46}k_{45} \oplus k_{75}k_{74}k_{58}k_{57}k_{46}k_{45}\oplus$

$k_{72}k_{58}k_{57}k_{46}k_{45} \oplus k_{71}k_{70}k_{58}k_{57}k_{46}k_{45} \oplus k_{78}k_{56}k_{46}k_{45} \oplus k_{77}k_{56}k_{46}k_{45}\oplus$

$k_{77}k_{76}k_{56}k_{46}k_{45} \oplus k_{76}k_{75}k_{56}k_{46}k_{45} \oplus k_{64}k_{56}k_{46}k_{45} \oplus k_{57}k_{56}k_{46}k_{45}\oplus$

$k_{55}k_{46}k_{45} \oplus k_{53}k_{46}k_{45} \oplus k_{78}k_{53}k_{46}k_{45} \oplus k_{76}k_{53}k_{46}k_{45} \oplus k_{77}k_{76}k_{53}k_{46}k_{45}\oplus$

$k_{75}k_{74}k_{53}k_{46}k_{45} \oplus k_{51}k_{46}k_{45} \oplus k_{79}k_{78}k_{51}k_{46}k_{45} \oplus k_{57}k_{51}k_{46}k_{45}\oplus$

$k_{58}k_{57}k_{51}k_{46}k_{45} \oplus k_{56}k_{51}k_{46}k_{45} \oplus k_{53}k_{51}k_{46}k_{45} \oplus k_{76}k_{50}k_{46}k_{45}\oplus$

$k_{75}k_{74}k_{50}k_{46}k_{45} \oplus k_{58}k_{50}k_{46}k_{45} \oplus k_{56}k_{50}k_{46}k_{45} \oplus k_{49}k_{46}k_{45}\oplus$

$k_{79}k_{78}k_{49}k_{46}k_{45} \oplus k_{77}k_{49}k_{46}k_{45} \oplus k_{76}k_{75}k_{49}k_{46}k_{45} \oplus k_{58}k_{49}k_{46}k_{45}\oplus$

$k_{75}k_{58}k_{49}k_{46}k_{45} \oplus k_{74}k_{73}k_{58}k_{49}k_{46}k_{45} \oplus k_{58}k_{57}k_{49}k_{46}k_{45} \oplus k_{53}k_{49}k_{46}k_{45}\oplus$

$k_{50}k_{49}k_{46}k_{45} \oplus k_{48}k_{46}k_{45} \oplus k_{64}k_{60}k_{48}k_{46}k_{45} \oplus k_{64}k_{59}k_{48}k_{46}k_{45}\oplus$

$k_{76}k_{58}k_{48}k_{46}k_{45} \oplus k_{75}k_{74}k_{58}k_{48}k_{46}k_{45} \oplus k_{64}k_{58}k_{48}k_{46}k_{45}\oplus$

$k_{64}k_{60}k_{58}k_{48}k_{46}k_{45} \oplus k_{64}k_{59}k_{58}k_{48}k_{46}k_{45} \oplus k_{58}k_{49}k_{48}k_{46}k_{45} \oplus k_{47}k_{46}k_{45}\oplus$

$k_{68}k_{47}k_{46}k_{45} \oplus k_{60}k_{47}k_{46}k_{45} \oplus k_{60}k_{58}k_{47}k_{46}k_{45} \oplus k_{59}k_{58}k_{47}k_{46}k_{45}\oplus$

$k_{57}k_{47}k_{46}k_{45} \oplus k_{58}k_{57}k_{47}k_{46}k_{45} \oplus k_{78}k_{44} \oplus k_{79}k_{78}k_{44} \oplus k_{77}k_{76}k_{44} \oplus$

$k_{76}k_{72}k_{44} \oplus k_{75}k_{74}k_{72}k_{44} \oplus k_{70}k_{44} \oplus k_{76}k_{71}k_{70}k_{44} \oplus k_{75}k_{74}k_{71}k_{70}k_{44} \oplus$

$k_{68}k_{44} \oplus k_{69}k_{68}k_{44} \oplus k_{66}k_{44} \oplus k_{67}k_{66}k_{44} \oplus k_{62}k_{44} \oplus k_{72}k_{61}k_{44} \oplus$

$k_{71}k_{70}k_{61}k_{44} \oplus k_{69}k_{60}k_{44} \oplus k_{68}k_{67}k_{60}k_{44} \oplus k_{61}k_{60}k_{44} \oplus k_{60}k_{59}k_{44} \oplus$

$k_{72}k_{60}k_{59}k_{44} \oplus k_{71}k_{70}k_{60}k_{59}k_{44} \oplus k_{58}k_{44} \oplus k_{60}k_{58}k_{57}k_{44} \oplus k_{59}k_{58}k_{57}k_{44} \oplus$

$k_{55}k_{44} \oplus k_{61}k_{55}k_{44} \oplus k_{60}k_{59}k_{55}k_{44} \oplus k_{54}k_{44} \oplus k_{55}k_{54}k_{44} \oplus k_{53}k_{44} \oplus$

$k_{51}k_{44} \oplus k_{49}k_{44} \oplus k_{78}k_{49}k_{44} \oplus k_{79}k_{78}k_{49}k_{44} \oplus k_{77}k_{76}k_{49}k_{44} \oplus k_{72}k_{49}k_{44} \oplus$

$k_{71}k_{70}k_{49}k_{44} \oplus k_{64}k_{49}k_{44} \oplus k_{59}k_{49}k_{44} \oplus k_{58}k_{49}k_{44} \oplus k_{57}k_{49}k_{44} \oplus$

$k_{58}k_{57}k_{49}k_{44} \oplus k_{53}k_{49}k_{44} \oplus k_{51}k_{49}k_{44} \oplus k_{74}k_{48}k_{44} \oplus k_{73}k_{72}k_{48}k_{44} \oplus$

$k_{47}k_{44} \oplus k_{78}k_{48}k_{47}k_{44} \oplus k_{79}k_{78}k_{48}k_{47}k_{44} \oplus k_{77}k_{76}k_{48}k_{47}k_{44} \oplus$

$k_{64}k_{48}k_{47}k_{44} \oplus k_{59}k_{48}k_{47}k_{44} \oplus k_{58}k_{48}k_{47}k_{44} \oplus k_{57}k_{48}k_{47}k_{44} \oplus$

$k_{58}k_{57}k_{48}k_{47}k_{44} \oplus k_{53}k_{48}k_{47}k_{44} \oplus k_{51}k_{48}k_{47}k_{44} \oplus k_{46}k_{44} \oplus k_{47}k_{46}k_{44} \oplus$

$k_{74}k_{47}k_{46}k_{44} \oplus k_{73}k_{72}k_{47}k_{46}k_{44} \oplus k_{78}k_{45}k_{44} \oplus k_{76}k_{45}k_{44} \oplus k_{77}k_{76}k_{45}k_{44} \oplus$

$k_{74}k_{45}k_{44} \oplus k_{75}k_{74}k_{45}k_{44} \oplus k_{73}k_{45}k_{44} \oplus k_{73}k_{72}k_{45}k_{44} \oplus k_{71}k_{45}k_{44} \oplus$

$k_{72}k_{71}k_{45}k_{44} \oplus k_{70}k_{69}k_{45}k_{44} \oplus k_{66}k_{45}k_{44} \oplus k_{79}k_{64}k_{45}k_{44} \oplus$

$k_{78}k_{77}k_{64}k_{45}k_{44} \oplus k_{75}k_{64}k_{45}k_{44} \oplus k_{74}k_{73}k_{64}k_{45}k_{44} \oplus k_{58}k_{45}k_{44} \oplus$

$k_{78}k_{58}k_{45}k_{44} \oplus k_{77}k_{76}k_{58}k_{45}k_{44} \oplus k_{74}k_{58}k_{45}k_{44} \oplus k_{73}k_{58}k_{45}k_{44} \oplus$

$k_{73}k_{72}k_{58}k_{45}k_{44} \oplus k_{72}k_{71}k_{58}k_{45}k_{44} \oplus k_{64}k_{58}k_{45}k_{44} \oplus k_{79}k_{64}k_{58}k_{45}k_{44} \oplus$

$k_{78}k_{77}k_{64}k_{58}k_{45}k_{44} \oplus k_{75}k_{64}k_{58}k_{45}k_{44} \oplus k_{74}k_{73}k_{64}k_{58}k_{45}k_{44} \oplus$

$k_{60}k_{58}k_{45}k_{44} \oplus k_{59}k_{58}k_{45}k_{44} \oplus k_{57}k_{45}k_{44} \oplus k_{58}k_{57}k_{45}k_{44} \oplus k_{56}k_{45}k_{44} \oplus$

$k_{64}k_{52}k_{45}k_{44} \oplus k_{64}k_{58}k_{52}k_{45}k_{44} \oplus k_{51}k_{45}k_{44} \oplus k_{58}k_{51}k_{45}k_{44} \oplus k_{49}k_{45}k_{44} \oplus$

$k_{64}k_{48}k_{45}k_{44} \oplus k_{64}k_{58}k_{48}k_{45}k_{44} \oplus k_{47}k_{45}k_{44} \oplus k_{58}k_{47}k_{45}k_{44} \oplus$

$k_{58}k_{46}k_{45}k_{44} \oplus k_{43} \oplus k_{79}k_{78}k_{43} \oplus k_{67}k_{43} \oplus k_{70}k_{60}k_{43} \oplus k_{69}k_{60}k_{43} \oplus$

$k_{69}k_{68}k_{60}k_{43} \oplus k_{68}k_{67}k_{60}k_{43} \oplus k_{60}k_{58}k_{43} \oplus k_{66}k_{56}k_{43} \oplus k_{60}k_{56}k_{43} \oplus$

$k_{60}k_{57}k_{56}k_{43} \oplus k_{55}k_{43} \oplus k_{60}k_{55}k_{43} \oplus k_{60}k_{56}k_{55}k_{43} \oplus k_{54}k_{43} \oplus k_{55}k_{54}k_{43} \oplus$

$k_{60}k_{55}k_{54}k_{43} \oplus k_{53}k_{43} \oplus k_{51}k_{43} \oplus k_{50}k_{49}k_{43} \oplus k_{44}k_{43} \oplus k_{79}k_{78}k_{42} \oplus$

$k_{77}k_{42} \oplus k_{75}k_{42} \oplus k_{76}k_{75}k_{42} \oplus k_{74}k_{42} \oplus k_{76}k_{72}k_{42} \oplus k_{75}k_{74}k_{72}k_{42} \oplus$

$k_{73}k_{72}k_{42} \oplus k_{72}k_{71}k_{42} \oplus k_{74}k_{72}k_{71}k_{42} \oplus k_{73}k_{72}k_{71}k_{42} \oplus k_{76}k_{71}k_{70}k_{42} \oplus$

$k_{75}k_{74}k_{71}k_{70}k_{42} \oplus k_{73}k_{71}k_{70}k_{42} \oplus k_{72}k_{71}k_{70}k_{42} \oplus k_{68}k_{42} \oplus k_{66}k_{42} \oplus$

$k_{67}k_{66}k_{42} \oplus k_{74}k_{62}k_{42} \oplus k_{73}k_{72}k_{62}k_{42} \oplus k_{61}k_{42} \oplus k_{79}k_{78}k_{60}k_{42} \oplus$

$k_{75}k_{60}k_{42} \oplus k_{74}k_{73}k_{60}k_{42} \oplus k_{70}k_{60}k_{42} \oplus k_{69}k_{68}k_{60}k_{42} \oplus k_{67}k_{60}k_{42} \oplus$

$k_{66}k_{65}k_{60}k_{42} \oplus k_{64}k_{60}k_{42} \oplus k_{62}k_{60}k_{42} \oplus k_{59}k_{42} \oplus k_{60}k_{58}k_{42} \oplus k_{60}k_{57}k_{42} \oplus$

$k_{58}k_{57}k_{42} \oplus k_{56}k_{42} \oplus k_{65}k_{55}k_{42} \oplus k_{56}k_{55}k_{42} \oplus k_{60}k_{56}k_{55}k_{42} \oplus k_{65}k_{54}k_{42} \oplus$

$k_{56}k_{54}k_{42} \oplus k_{55}k_{54}k_{42} \oplus k_{53}k_{42} \oplus k_{60}k_{53}k_{42} \oplus k_{60}k_{54}k_{53}k_{42} \oplus k_{52}k_{42} \oplus$

$k_{50}k_{42} \oplus k_{51}k_{50}k_{42} \oplus k_{72}k_{49}k_{42} \oplus k_{71}k_{70}k_{49}k_{42} \oplus k_{60}k_{48}k_{42} \oplus k_{47}k_{42} \oplus$

$k_{73}k_{47}k_{42} \oplus k_{72}k_{71}k_{47}k_{42} \oplus k_{62}k_{47}k_{42} \oplus k_{74}k_{46}k_{42} \oplus k_{72}k_{46}k_{42} \oplus$

$$k_{73}k_{72}k_{46}k_{42} \oplus k_{71}k_{70}k_{46}k_{42} \oplus k_{76}k_{45}k_{42} \oplus k_{75}k_{74}k_{45}k_{42} \oplus k_{73}k_{45}k_{42}\oplus$$
$$k_{72}k_{71}k_{45}k_{42} \oplus k_{49}k_{45}k_{42} \oplus k_{46}k_{45}k_{42} \oplus k_{60}k_{44}k_{42} \oplus k_{60}k_{43}k_{42}\oplus$$
$$k_{69}k_{60}k_{43}k_{42} \oplus k_{68}k_{67}k_{60}k_{43}k_{42} \oplus k_{57}k_{43}k_{42} \oplus k_{56}k_{43}k_{42} \oplus k_{55}k_{43}k_{42}\oplus$$
$$k_{54}k_{43}k_{42} \oplus k_{41} \oplus k_{74}k_{41} \oplus k_{73}k_{72}k_{41} \oplus k_{70}k_{41} \oplus k_{69}k_{41} \oplus k_{69}k_{68}k_{41}\oplus$$
$$k_{68}k_{67}k_{41} \oplus k_{65}k_{41} \oplus k_{61}k_{41} \oplus k_{73}k_{61}k_{41} \oplus k_{72}k_{71}k_{61}k_{41} \oplus k_{60}k_{41}\oplus$$
$$k_{60}k_{59}k_{41} \oplus k_{73}k_{60}k_{59}k_{41} \oplus k_{72}k_{71}k_{60}k_{59}k_{41} \oplus k_{59}k_{58}k_{41} \oplus k_{56}k_{41}\oplus$$
$$k_{73}k_{56}k_{41} \oplus k_{72}k_{56}k_{41} \oplus k_{72}k_{71}k_{56}k_{41} \oplus k_{71}k_{70}k_{56}k_{41} \oplus k_{65}k_{56}k_{41}\oplus$$
$$k_{47}k_{41} \oplus k_{61}k_{46}k_{41} \oplus k_{60}k_{59}k_{46}k_{41} \oplus k_{56}k_{46}k_{41} \oplus k_{56}k_{45}k_{41} \oplus k_{44}k_{41}\oplus$$
$$k_{43}k_{41} \oplus k_{70}k_{42}k_{41} \oplus k_{69}k_{68}k_{42}k_{41} \oplus k_{60}k_{42}k_{41} \oplus k_{70}k_{60}k_{42}k_{41}\oplus$$
$$k_{69}k_{68}k_{60}k_{42}k_{41} \oplus k_{55}k_{42}k_{41} \oplus k_{60}k_{55}k_{42}k_{41} \oplus k_{60}k_{54}k_{53}k_{42}k_{41}\oplus$$
$$k_{51}k_{42}k_{41} \oplus k_{50}k_{49}k_{42}k_{41} \oplus k_{43}k_{42}k_{41} \oplus k_{60}k_{43}k_{42}k_{41} \oplus k_{40} \oplus k_{79}k_{40}\oplus$$
$$k_{78}k_{40} \oplus k_{78}k_{77}k_{40} \oplus k_{79}k_{78}k_{77}k_{40} \oplus k_{77}k_{76}k_{40} \oplus k_{68}k_{40} \oplus k_{79}k_{68}k_{40}\oplus$$
$$k_{78}k_{77}k_{68}k_{40} \oplus k_{66}k_{40} \oplus k_{64}k_{40} \oplus k_{65}k_{64}k_{40} \oplus k_{69}k_{60}k_{40} \oplus k_{68}k_{67}k_{60}k_{40}\oplus$$
$$k_{58}k_{40} \oplus k_{60}k_{58}k_{40} \oplus k_{57}k_{40} \oplus k_{56}k_{40} \oplus k_{54}k_{40} \oplus k_{55}k_{54}k_{40} \oplus k_{53}k_{40}\oplus$$
$$k_{79}k_{53}k_{40} \oplus k_{78}k_{77}k_{53}k_{40} \oplus k_{52}k_{40} \oplus k_{79}k_{78}k_{52}k_{40} \oplus k_{68}k_{52}k_{40}\oplus$$
$$k_{53}k_{52}k_{40} \oplus k_{64}k_{51}k_{40} \oplus k_{50}k_{40} \oplus k_{64}k_{50}k_{40} \oplus k_{49}k_{40} \oplus k_{64}k_{49}k_{40}\oplus$$
$$k_{50}k_{49}k_{40} \oplus k_{64}k_{50}k_{49}k_{40} \oplus k_{48}k_{40} \oplus k_{74}k_{48}k_{40} \oplus k_{73}k_{72}k_{48}k_{40}\oplus$$
$$k_{61}k_{48}k_{40} \oplus k_{60}k_{59}k_{48}k_{40} \oplus k_{49}k_{48}k_{40} \oplus k_{64}k_{49}k_{48}k_{40} \oplus k_{64}k_{48}k_{47}k_{40}\oplus$$
$$k_{74}k_{47}k_{46}k_{40} \oplus k_{73}k_{72}k_{47}k_{46}k_{40} \oplus k_{61}k_{47}k_{46}k_{40} \oplus k_{60}k_{59}k_{47}k_{46}k_{40}\oplus$$
$$k_{45}k_{40} \oplus k_{60}k_{42}k_{40} \oplus k_{41}k_{40} \oplus k_{60}k_{57}k_{41}k_{40} \oplus k_{56}k_{41}k_{40}\oplus$$
$$k_{60}k_{56}k_{55}k_{41}k_{40} \oplus k_{55}k_{54}k_{41}k_{40} \oplus k_{52}k_{41}k_{40} \oplus k_{51}k_{50}k_{41}k_{40} \oplus k_{43}k_{41}k_{40}\oplus$$
$$k_{42}k_{41}k_{40} \oplus k_{39} \oplus k_{79}k_{39} \oplus k_{78}k_{77}k_{39} \oplus k_{79}k_{78}k_{77}k_{39} \oplus k_{75}k_{39}\oplus$$
$$k_{75}k_{74}k_{39} \oplus k_{75}k_{73}k_{72}k_{39} \oplus k_{74}k_{73}k_{72}k_{39} \oplus k_{68}k_{39} \oplus k_{79}k_{68}k_{39}\oplus$$
$$k_{78}k_{77}k_{68}k_{39} \oplus k_{67}k_{39} \oplus k_{79}k_{65}k_{39} \oplus k_{78}k_{77}k_{65}k_{39} \oplus k_{79}k_{78}k_{77}k_{65}k_{39}\oplus$$
$$k_{68}k_{65}k_{39} \oplus k_{79}k_{68}k_{65}k_{39} \oplus k_{78}k_{77}k_{68}k_{65}k_{39} \oplus k_{66}k_{65}k_{39} \oplus k_{64}k_{63}k_{39}\oplus$$
$$k_{79}k_{64}k_{63}k_{39} \oplus k_{78}k_{77}k_{64}k_{63}k_{39} \oplus k_{79}k_{78}k_{77}k_{64}k_{63}k_{39} \oplus k_{68}k_{64}k_{63}k_{39}\oplus$$
$$k_{79}k_{68}k_{64}k_{63}k_{39} \oplus k_{78}k_{77}k_{68}k_{64}k_{63}k_{39} \oplus k_{64}k_{62}k_{61}k_{39} \oplus k_{77}k_{60}k_{39}\oplus$$
$$k_{76}k_{75}k_{60}k_{39} \oplus k_{65}k_{57}k_{39} \oplus k_{64}k_{63}k_{57}k_{39} \oplus k_{54}k_{39} \oplus k_{65}k_{54}k_{39}\oplus$$
$$k_{64}k_{63}k_{54}k_{39} \oplus k_{53}k_{39} \oplus k_{79}k_{53}k_{39} \oplus k_{78}k_{77}k_{53}k_{39} \oplus k_{65}k_{53}k_{39}\oplus$$
$$k_{79}k_{65}k_{53}k_{39} \oplus k_{78}k_{77}k_{65}k_{53}k_{39} \oplus k_{64}k_{63}k_{53}k_{39} \oplus k_{79}k_{64}k_{63}k_{53}k_{39}\oplus$$
$$k_{78}k_{77}k_{64}k_{63}k_{53}k_{39} \oplus k_{79}k_{78}k_{52}k_{39} \oplus k_{68}k_{52}k_{39} \oplus k_{65}k_{52}k_{39}\oplus$$
$$k_{79}k_{78}k_{65}k_{52}k_{39} \oplus k_{68}k_{65}k_{52}k_{39} \oplus k_{64}k_{63}k_{52}k_{39} \oplus k_{79}k_{78}k_{64}k_{63}k_{52}k_{39}\oplus$$
$$k_{68}k_{64}k_{63}k_{52}k_{39} \oplus k_{53}k_{52}k_{39} \oplus k_{65}k_{53}k_{52}k_{39} \oplus k_{64}k_{63}k_{53}k_{52}k_{39}\oplus$$
$$k_{60}k_{50}k_{39} \oplus k_{51}k_{50}k_{39} \oplus k_{49}k_{39} \oplus k_{74}k_{48}k_{39} \oplus k_{73}k_{72}k_{48}k_{39} \oplus k_{75}k_{47}k_{39}\oplus$$
$$k_{74}k_{73}k_{47}k_{39} \oplus k_{47}k_{46}k_{39} \oplus k_{45}k_{39} \oplus k_{65}k_{45}k_{39} \oplus k_{64}k_{63}k_{45}k_{39} \oplus k_{40}k_{39}\oplus$$
$$k_{70}k_{40}k_{39} \oplus k_{69}k_{68}k_{40}k_{39} \oplus k_{43}k_{40}k_{39} \oplus k_{38} \oplus k_{79}k_{38} \oplus k_{78}k_{77}k_{38}\oplus$$

$$k_{79}k_{78}k_{77}k_{38} \oplus k_{68}k_{38} \oplus k_{79}k_{68}k_{38} \oplus k_{78}k_{77}k_{68}k_{38} \oplus k_{79}k_{66}k_{38}\oplus$$

$$k_{78}k_{77}k_{66}k_{38} \oplus k_{79}k_{78}k_{77}k_{66}k_{38} \oplus k_{68}k_{66}k_{38} \oplus k_{79}k_{68}k_{66}k_{38}\oplus$$

$$k_{78}k_{77}k_{68}k_{66}k_{38} \oplus k_{79}k_{65}k_{64}k_{38} \oplus k_{78}k_{77}k_{65}k_{64}k_{38} \oplus k_{79}k_{78}k_{77}k_{65}k_{64}k_{38}\oplus$$

$$k_{68}k_{65}k_{64}k_{38} \oplus k_{79}k_{68}k_{65}k_{64}k_{38} \oplus k_{78}k_{77}k_{68}k_{65}k_{64}k_{38} \oplus k_{79}k_{78}k_{62}k_{38}\oplus$$

$$k_{74}k_{62}k_{38} \oplus k_{73}k_{72}k_{62}k_{38} \oplus k_{68}k_{62}k_{38} \oplus k_{64}k_{62}k_{38} \oplus k_{60}k_{38} \oplus k_{69}k_{60}k_{38}\oplus$$

$$k_{68}k_{67}k_{60}k_{38} \oplus k_{79}k_{78}k_{61}k_{60}k_{38} \oplus k_{68}k_{61}k_{60}k_{38} \oplus k_{64}k_{61}k_{60}k_{38} \oplus k_{58}k_{38}\oplus$$

$$k_{66}k_{57}k_{38} \oplus k_{65}k_{64}k_{57}k_{38} \oplus k_{60}k_{57}k_{38} \oplus k_{54}k_{38} \oplus k_{66}k_{54}k_{38}\oplus$$

$$k_{65}k_{64}k_{54}k_{38} \oplus k_{53}k_{38} \oplus k_{79}k_{53}k_{38} \oplus k_{78}k_{77}k_{53}k_{38} \oplus k_{66}k_{53}k_{38}\oplus$$

$$k_{79}k_{66}k_{53}k_{38} \oplus k_{78}k_{77}k_{66}k_{53}k_{38} \oplus k_{65}k_{64}k_{53}k_{38} \oplus k_{79}k_{65}k_{64}k_{53}k_{38}\oplus$$

$$k_{78}k_{77}k_{65}k_{64}k_{53}k_{38} \oplus k_{62}k_{53}k_{38} \oplus k_{61}k_{60}k_{53}k_{38} \oplus k_{52}k_{38} \oplus k_{79}k_{78}k_{52}k_{38}\oplus$$

$$k_{68}k_{52}k_{38} \oplus k_{66}k_{52}k_{38} \oplus k_{79}k_{78}k_{66}k_{52}k_{38} \oplus k_{68}k_{66}k_{52}k_{38} \oplus k_{65}k_{64}k_{52}k_{38}\oplus$$

$$k_{79}k_{78}k_{65}k_{64}k_{52}k_{38} \oplus k_{68}k_{65}k_{64}k_{52}k_{38} \oplus k_{53}k_{52}k_{38} \oplus k_{66}k_{53}k_{52}k_{38}\oplus$$

$$k_{65}k_{64}k_{53}k_{52}k_{38} \oplus k_{62}k_{47}k_{38} \oplus k_{45}k_{38} \oplus k_{66}k_{45}k_{38} \oplus k_{65}k_{64}k_{45}k_{38}\oplus$$

$$k_{60}k_{42}k_{38} \oplus k_{79}k_{39}k_{38} \oplus k_{78}k_{77}k_{39}k_{38} \oplus k_{79}k_{78}k_{77}k_{39}k_{38} \oplus k_{68}k_{39}k_{38}\oplus$$

$$k_{79}k_{68}k_{39}k_{38} \oplus k_{78}k_{77}k_{68}k_{39}k_{38} \oplus k_{57}k_{39}k_{38} \oplus k_{54}k_{39}k_{38} \oplus k_{53}k_{39}k_{38}\oplus$$

$$k_{79}k_{53}k_{39}k_{38} \oplus k_{78}k_{77}k_{53}k_{39}k_{38} \oplus k_{52}k_{39}k_{38} \oplus k_{79}k_{78}k_{52}k_{39}k_{38}\oplus$$

$$k_{68}k_{52}k_{39}k_{38} \oplus k_{53}k_{52}k_{39}k_{38} \oplus k_{45}k_{39}k_{38} \oplus k_{37} \oplus k_{64}k_{37} \oplus k_{63}k_{37}\oplus$$

$$k_{62}k_{61}k_{37} \oplus k_{38}k_{37} \oplus k_{36} \oplus k_{73}k_{36} \oplus k_{72}k_{36} \oplus k_{73}k_{72}k_{36} \oplus k_{71}k_{70}k_{36}\oplus$$

$$k_{73}k_{71}k_{70}k_{36} \oplus k_{72}k_{71}k_{70}k_{36} \oplus k_{67}k_{36} \oplus k_{66}k_{36} \oplus k_{66}k_{65}k_{36} \oplus k_{67}k_{64}k_{36}\oplus$$

$$k_{66}k_{64}k_{36} \oplus k_{65}k_{64}k_{36} \oplus k_{66}k_{65}k_{64}k_{36} \oplus k_{63}k_{62}k_{36} \oplus k_{60}k_{36} \oplus k_{61}k_{60}k_{36}\oplus$$

$$k_{59}k_{36} \oplus k_{60}k_{58}k_{36} \oplus k_{58}k_{57}k_{36} \oplus k_{56}k_{36} \oplus k_{55}k_{36} \oplus k_{66}k_{54}k_{36} \oplus k_{46}k_{36}\oplus$$

$$k_{72}k_{46}k_{36} \oplus k_{71}k_{70}k_{46}k_{36} \oplus k_{45}k_{36} \oplus k_{73}k_{45}k_{36} \oplus k_{72}k_{71}k_{45}k_{36}\oplus$$

$$k_{46}k_{45}k_{36} \oplus k_{40}k_{36} \oplus k_{64}k_{40}k_{36} \oplus k_{64}k_{39}k_{36} \oplus k_{37}k_{36} \oplus k_{79}k_{78}k_{37}k_{36}\oplus$$

$$k_{68}k_{37}k_{36} \oplus k_{64}k_{37}k_{36} \oplus k_{79}k_{78}k_{62}k_{37}k_{36} \oplus k_{68}k_{62}k_{37}k_{36} \oplus k_{64}k_{62}k_{37}k_{36}\oplus$$

$$k_{60}k_{37}k_{36} \oplus k_{69}k_{60}k_{37}k_{36} \oplus k_{68}k_{67}k_{60}k_{37}k_{36} \oplus k_{79}k_{78}k_{61}k_{60}k_{37}k_{36}\oplus$$

$$k_{68}k_{61}k_{60}k_{37}k_{36} \oplus k_{64}k_{61}k_{60}k_{37}k_{36} \oplus k_{60}k_{57}k_{37}k_{36} \oplus k_{53}k_{37}k_{36}\oplus$$

$$k_{62}k_{53}k_{37}k_{36} \oplus k_{61}k_{60}k_{53}k_{37}k_{36} \oplus k_{60}k_{42}k_{37}k_{36} \oplus k_{35} \oplus k_{78}k_{35} \oplus k_{77}k_{35}\oplus$$

$$k_{76}k_{35} \oplus k_{75}k_{74}k_{35} \oplus k_{77}k_{75}k_{74}k_{35} \oplus k_{76}k_{75}k_{74}k_{35} \oplus k_{73}k_{35} \oplus k_{71}k_{35}\oplus$$

$$k_{72}k_{71}k_{35} \oplus k_{70}k_{69}k_{35} \oplus k_{68}k_{35} \oplus k_{63}k_{35} \oplus k_{62}k_{35} \oplus k_{74}k_{62}k_{35}\oplus$$

$$k_{73}k_{72}k_{62}k_{35} \oplus k_{73}k_{61}k_{35} \oplus k_{72}k_{71}k_{61}k_{35} \oplus k_{62}k_{61}k_{35} \oplus k_{73}k_{60}k_{59}k_{35}\oplus$$

$$k_{72}k_{71}k_{60}k_{59}k_{35} \oplus k_{58}k_{35} \oplus k_{59}k_{58}k_{35} \oplus k_{64}k_{57}k_{35} \oplus k_{56}k_{35} \oplus k_{78}k_{56}k_{35}\oplus$$

$$k_{77}k_{76}k_{56}k_{35} \oplus k_{73}k_{56}k_{35} \oplus k_{72}k_{56}k_{35} \oplus k_{72}k_{71}k_{56}k_{35} \oplus k_{71}k_{70}k_{56}k_{35}\oplus$$

$$k_{74}k_{55}k_{35} \oplus k_{73}k_{72}k_{55}k_{35} \oplus k_{61}k_{55}k_{35} \oplus k_{60}k_{59}k_{55}k_{35} \oplus k_{53}k_{35}\oplus$$

$$k_{79}k_{78}k_{53}k_{35} \oplus k_{68}k_{53}k_{35} \oplus k_{64}k_{53}k_{35} \oplus k_{79}k_{78}k_{52}k_{35} \oplus k_{68}k_{52}k_{35}\oplus$$

$$k_{64}k_{52}k_{35} \oplus k_{53}k_{52}k_{35} \oplus k_{51}k_{35} \oplus k_{56}k_{51}k_{35} \oplus k_{79}k_{78}k_{52}k_{51}k_{35}\oplus$$

$$k_{68}k_{52}k_{51}k_{35} \oplus k_{64}k_{52}k_{51}k_{35} \oplus k_{53}k_{52}k_{51}k_{35} \oplus k_{50}k_{35} \oplus k_{76}k_{50}k_{35}\oplus$$

$$k_{75}k_{74}k_{50}k_{35} \oplus k_{60}k_{50}k_{35} \oplus k_{79}k_{78}k_{51}k_{50}k_{35} \oplus k_{68}k_{51}k_{50}k_{35} \oplus$$

$$k_{64}k_{51}k_{50}k_{35} \oplus k_{53}k_{51}k_{50}k_{35} \oplus k_{49}k_{35} \oplus k_{77}k_{49}k_{35} \oplus k_{76}k_{75}k_{49}k_{35} \oplus$$

$$k_{50}k_{49}k_{35} \oplus k_{60}k_{49}k_{48}k_{35} \oplus k_{62}k_{47}k_{35} \oplus k_{55}k_{47}k_{35} \oplus k_{46}k_{35} \oplus k_{61}k_{46}k_{35} \oplus$$

$$k_{60}k_{59}k_{46}k_{35} \oplus k_{56}k_{46}k_{35} \oplus k_{56}k_{45}k_{35} \oplus k_{44}k_{35} \oplus k_{79}k_{78}k_{38}k_{35} \oplus$$

$$k_{68}k_{38}k_{35} \oplus k_{64}k_{38}k_{35} \oplus k_{53}k_{38}k_{35} \oplus k_{36}k_{35} \oplus k_{79}k_{78}k_{37}k_{36}k_{35} \oplus$$

$$k_{68}k_{37}k_{36}k_{35} \oplus k_{64}k_{37}k_{36}k_{35} \oplus k_{53}k_{37}k_{36}k_{35} \oplus k_{34} \oplus k_{77}k_{34} \oplus k_{78}k_{76}k_{34} \oplus$$

$$k_{77}k_{76}k_{34} \oplus k_{79}k_{78}k_{77}k_{76}k_{34} \oplus k_{75}k_{34} \oplus k_{78}k_{75}k_{74}k_{34} \oplus k_{77}k_{76}k_{75}k_{74}k_{34} \oplus$$

$$k_{79}k_{78}k_{73}k_{34} \oplus k_{77}k_{73}k_{34} \oplus k_{78}k_{76}k_{73}k_{34} \oplus k_{77}k_{76}k_{73}k_{34} \oplus k_{75}k_{73}k_{34} \oplus$$

$$k_{75}k_{74}k_{73}k_{34} \oplus k_{78}k_{75}k_{74}k_{73}k_{34} \oplus k_{77}k_{76}k_{75}k_{74}k_{73}k_{34} \oplus k_{73}k_{72}k_{34} \oplus$$

$$k_{75}k_{73}k_{72}k_{34} \oplus k_{74}k_{73}k_{72}k_{34} \oplus k_{72}k_{71}k_{34} \oplus k_{79}k_{78}k_{72}k_{71}k_{34} \oplus$$

$$k_{77}k_{72}k_{71}k_{34} \oplus k_{78}k_{76}k_{72}k_{71}k_{34} \oplus k_{77}k_{76}k_{72}k_{71}k_{34} \oplus k_{75}k_{72}k_{71}k_{34} \oplus$$

$$k_{74}k_{72}k_{71}k_{34} \oplus k_{75}k_{74}k_{72}k_{71}k_{34} \oplus k_{78}k_{75}k_{74}k_{72}k_{71}k_{34} \oplus$$

$$k_{77}k_{76}k_{75}k_{74}k_{72}k_{71}k_{34} \oplus k_{73}k_{72}k_{71}k_{34} \oplus k_{74}k_{73}k_{72}k_{71}k_{34} \oplus$$

$$k_{76}k_{74}k_{73}k_{72}k_{71}k_{34} \oplus k_{75}k_{74}k_{73}k_{72}k_{71}k_{34} \oplus k_{70}k_{34} \oplus k_{71}k_{70}k_{34} \oplus$$

$$k_{72}k_{70}k_{69}k_{34} \oplus k_{71}k_{70}k_{69}k_{34} \oplus k_{68}k_{34} \oplus k_{69}k_{68}k_{34} \oplus k_{66}k_{34} \oplus k_{64}k_{34} \oplus$$

$$k_{79}k_{64}k_{34} \oplus k_{78}k_{77}k_{64}k_{34} \oplus k_{75}k_{64}k_{34} \oplus k_{73}k_{64}k_{34} \oplus k_{74}k_{73}k_{64}k_{34} \oplus$$

$$k_{72}k_{71}k_{64}k_{34} \oplus k_{75}k_{62}k_{34} \oplus k_{75}k_{74}k_{62}k_{34} \oplus k_{73}k_{62}k_{34} \oplus k_{75}k_{73}k_{72}k_{62}k_{34} \oplus$$

$$k_{74}k_{73}k_{72}k_{62}k_{34} \oplus k_{72}k_{71}k_{62}k_{34} \oplus k_{78}k_{60}k_{34} \oplus k_{77}k_{76}k_{60}k_{34} \oplus k_{75}k_{60}k_{34} \oplus$$

$$k_{74}k_{60}k_{34} \oplus k_{73}k_{60}k_{34} \oplus k_{74}k_{73}k_{60}k_{34} \oplus k_{73}k_{72}k_{60}k_{34} \oplus k_{72}k_{71}k_{60}k_{34} \oplus$$

$$k_{64}k_{60}k_{34} \oplus k_{73}k_{61}k_{60}k_{34} \oplus k_{72}k_{71}k_{61}k_{60}k_{34} \oplus k_{58}k_{34} \oplus k_{78}k_{58}k_{34} \oplus$$

$$k_{77}k_{76}k_{58}k_{34} \oplus k_{74}k_{58}k_{34} \oplus k_{73}k_{58}k_{34} \oplus k_{73}k_{72}k_{58}k_{34} \oplus k_{72}k_{71}k_{58}k_{34} \oplus$$

$$k_{64}k_{58}k_{34} \oplus k_{79}k_{64}k_{58}k_{34} \oplus k_{78}k_{77}k_{64}k_{58}k_{34} \oplus k_{75}k_{64}k_{58}k_{34} \oplus$$

$$k_{74}k_{73}k_{64}k_{58}k_{34} \oplus k_{60}k_{58}k_{34} \oplus k_{78}k_{59}k_{58}k_{34} \oplus k_{77}k_{76}k_{59}k_{58}k_{34} \oplus$$

$$k_{74}k_{59}k_{58}k_{34} \oplus k_{73}k_{59}k_{58}k_{34} \oplus k_{73}k_{72}k_{59}k_{58}k_{34} \oplus k_{72}k_{71}k_{59}k_{58}k_{34} \oplus$$

$$k_{64}k_{59}k_{58}k_{34} \oplus k_{75}k_{57}k_{34} \oplus k_{74}k_{57}k_{34} \oplus k_{74}k_{73}k_{57}k_{34} \oplus k_{73}k_{72}k_{57}k_{34} \oplus$$

$$k_{64}k_{57}k_{34} \oplus k_{60}k_{57}k_{34} \oplus k_{58}k_{57}k_{34} \oplus k_{59}k_{58}k_{57}k_{34} \oplus k_{78}k_{56}k_{34} \oplus$$

$$k_{77}k_{76}k_{56}k_{34} \oplus k_{73}k_{56}k_{34} \oplus k_{78}k_{73}k_{56}k_{34} \oplus k_{77}k_{76}k_{73}k_{56}k_{34} \oplus$$

$$k_{72}k_{71}k_{56}k_{34} \oplus k_{78}k_{72}k_{71}k_{56}k_{34} \oplus k_{77}k_{76}k_{72}k_{71}k_{56}k_{34} \oplus k_{64}k_{56}k_{34} \oplus$$

$$k_{73}k_{64}k_{56}k_{34} \oplus k_{72}k_{71}k_{64}k_{56}k_{34} \oplus k_{60}k_{56}k_{34} \oplus k_{78}k_{60}k_{56}k_{34} \oplus$$

$$k_{77}k_{76}k_{60}k_{56}k_{34} \oplus k_{64}k_{60}k_{56}k_{34} \oplus k_{59}k_{58}k_{56}k_{34} \oplus k_{78}k_{59}k_{58}k_{56}k_{34} \oplus$$

$$k_{77}k_{76}k_{59}k_{58}k_{56}k_{34} \oplus k_{64}k_{59}k_{58}k_{56}k_{34} \oplus k_{57}k_{56}k_{34} \oplus k_{72}k_{55}k_{34} \oplus$$

$$k_{71}k_{55}k_{34} \oplus k_{71}k_{70}k_{55}k_{34} \oplus k_{70}k_{69}k_{55}k_{34} \oplus k_{62}k_{55}k_{34} \oplus k_{61}k_{60}k_{55}k_{34} \oplus$$

$$k_{54}k_{34} \oplus k_{73}k_{54}k_{34} \oplus k_{72}k_{71}k_{54}k_{34} \oplus k_{53}k_{34} \oplus k_{78}k_{53}k_{34} \oplus k_{77}k_{76}k_{53}k_{34} \oplus$$

$$k_{73}k_{53}k_{34} \oplus k_{72}k_{71}k_{53}k_{34} \oplus k_{64}k_{52}k_{34} \oplus k_{64}k_{58}k_{52}k_{34} \oplus k_{79}k_{78}k_{51}k_{34} \oplus$$

$$k_{76}k_{51}k_{34} \oplus k_{75}k_{74}k_{51}k_{34} \oplus k_{76}k_{73}k_{51}k_{34} \oplus k_{75}k_{74}k_{73}k_{51}k_{34} \oplus$$

$$k_{76}k_{72}k_{71}k_{51}k_{34} \oplus k_{75}k_{74}k_{72}k_{71}k_{51}k_{34} \oplus k_{60}k_{51}k_{34} \oplus k_{58}k_{51}k_{34} \oplus$$

$k_{59}k_{58}k_{51}k_{34} \oplus k_{56}k_{51}k_{34} \oplus k_{73}k_{56}k_{51}k_{34} \oplus k_{72}k_{71}k_{56}k_{51}k_{34} \oplus$

$k_{60}k_{56}k_{51}k_{34} \oplus k_{59}k_{58}k_{56}k_{51}k_{34} \oplus k_{53}k_{51}k_{34} \oplus k_{50}k_{34} \oplus k_{73}k_{50}k_{34} \oplus$

$k_{72}k_{71}k_{50}k_{34} \oplus k_{75}k_{60}k_{50}k_{34} \oplus k_{74}k_{73}k_{60}k_{50}k_{34} \oplus k_{49}k_{34} \oplus$

$k_{79}k_{78}k_{77}k_{76}k_{49}k_{34} \oplus k_{75}k_{49}k_{34} \oplus k_{78}k_{73}k_{49}k_{34} \oplus k_{77}k_{76}k_{73}k_{49}k_{34} \oplus$

$k_{75}k_{73}k_{49}k_{34} \oplus k_{78}k_{72}k_{71}k_{49}k_{34} \oplus k_{77}k_{76}k_{72}k_{71}k_{49}k_{34} \oplus k_{75}k_{72}k_{71}k_{49}k_{34} \oplus$

$k_{74}k_{73}k_{72}k_{71}k_{49}k_{34} \oplus k_{57}k_{49}k_{34} \oplus k_{53}k_{49}k_{34} \oplus k_{78}k_{53}k_{49}k_{34} \oplus$

$k_{77}k_{76}k_{53}k_{49}k_{34} \oplus k_{79}k_{78}k_{51}k_{49}k_{34} \oplus k_{73}k_{51}k_{49}k_{34} \oplus k_{72}k_{71}k_{51}k_{49}k_{34} \oplus$

$k_{53}k_{51}k_{49}k_{34} \oplus k_{48}k_{34} \oplus k_{76}k_{48}k_{34} \oplus k_{75}k_{74}k_{48}k_{34} \oplus k_{76}k_{73}k_{48}k_{34} \oplus$

$k_{75}k_{74}k_{73}k_{48}k_{34} \oplus k_{76}k_{72}k_{71}k_{48}k_{34} \oplus k_{75}k_{74}k_{72}k_{71}k_{48}k_{34} \oplus k_{67}k_{48}k_{34} \oplus$

$k_{66}k_{65}k_{48}k_{34} \oplus k_{64}k_{48}k_{34} \oplus k_{62}k_{48}k_{34} \oplus k_{74}k_{62}k_{48}k_{34} \oplus k_{73}k_{72}k_{62}k_{48}k_{34} \oplus$

$k_{60}k_{48}k_{34} \oplus k_{64}k_{58}k_{48}k_{34} \oplus k_{57}k_{48}k_{34} \oplus k_{60}k_{50}k_{48}k_{34} \oplus k_{49}k_{48}k_{34} \oplus$

$k_{73}k_{49}k_{48}k_{34} \oplus k_{72}k_{71}k_{49}k_{48}k_{34} \oplus k_{60}k_{49}k_{48}k_{34} \oplus k_{75}k_{60}k_{49}k_{48}k_{34} \oplus$

$k_{74}k_{73}k_{60}k_{49}k_{48}k_{34} \oplus k_{75}k_{47}k_{34} \oplus k_{73}k_{47}k_{34} \oplus k_{74}k_{73}k_{47}k_{34} \oplus$

$k_{72}k_{71}k_{47}k_{34} \oplus k_{75}k_{62}k_{47}k_{34} \oplus k_{74}k_{73}k_{62}k_{47}k_{34} \oplus k_{60}k_{47}k_{34} \oplus k_{58}k_{47}k_{34} \oplus$

$k_{59}k_{58}k_{47}k_{34} \oplus k_{57}k_{47}k_{34} \oplus k_{48}k_{47}k_{34} \oplus k_{78}k_{48}k_{47}k_{34} \oplus k_{77}k_{76}k_{48}k_{47}k_{34} \oplus$

$k_{79}k_{78}k_{77}k_{76}k_{48}k_{47}k_{34} \oplus k_{62}k_{48}k_{47}k_{34} \oplus k_{57}k_{48}k_{47}k_{34} \oplus k_{53}k_{48}k_{47}k_{34} \oplus$

$k_{78}k_{53}k_{48}k_{47}k_{34} \oplus k_{77}k_{76}k_{53}k_{48}k_{47}k_{34} \oplus k_{51}k_{48}k_{47}k_{34} \oplus$

$k_{79}k_{78}k_{51}k_{48}k_{47}k_{34} \oplus k_{53}k_{51}k_{48}k_{47}k_{34} \oplus k_{46}k_{34} \oplus k_{79}k_{78}k_{46}k_{34} \oplus$

$k_{77}k_{46}k_{34} \oplus k_{78}k_{76}k_{46}k_{34} \oplus k_{77}k_{76}k_{46}k_{34} \oplus k_{75}k_{46}k_{34} \oplus k_{74}k_{46}k_{34} \oplus$

$k_{75}k_{74}k_{46}k_{34} \oplus k_{78}k_{75}k_{74}k_{46}k_{34} \oplus k_{77}k_{76}k_{75}k_{74}k_{46}k_{34} \oplus k_{74}k_{73}k_{46}k_{34} \oplus$

$k_{76}k_{74}k_{73}k_{46}k_{34} \oplus k_{75}k_{74}k_{73}k_{46}k_{34} \oplus k_{73}k_{72}k_{46}k_{34} \oplus k_{64}k_{46}k_{34} \oplus$

$k_{62}k_{46}k_{34} \oplus k_{60}k_{46}k_{34} \oplus k_{61}k_{60}k_{46}k_{34} \oplus k_{58}k_{46}k_{34} \oplus k_{59}k_{58}k_{46}k_{34} \oplus$

$k_{56}k_{46}k_{34} \oplus k_{78}k_{56}k_{46}k_{34} \oplus k_{77}k_{76}k_{56}k_{46}k_{34} \oplus k_{64}k_{56}k_{46}k_{34} \oplus k_{54}k_{46}k_{34} \oplus$

$k_{53}k_{46}k_{34} \oplus k_{76}k_{51}k_{46}k_{34} \oplus k_{75}k_{74}k_{51}k_{46}k_{34} \oplus k_{56}k_{51}k_{46}k_{34} \oplus k_{50}k_{46}k_{34} \oplus$

$k_{78}k_{49}k_{46}k_{34} \oplus k_{77}k_{76}k_{49}k_{46}k_{34} \oplus k_{75}k_{49}k_{46}k_{34} \oplus k_{74}k_{73}k_{49}k_{46}k_{34} \oplus$

$k_{51}k_{49}k_{46}k_{34} \oplus k_{76}k_{48}k_{46}k_{34} \oplus k_{75}k_{74}k_{48}k_{46}k_{34} \oplus k_{49}k_{48}k_{46}k_{34} \oplus$

$k_{47}k_{46}k_{34} \oplus k_{74}k_{47}k_{46}k_{34} \oplus k_{73}k_{47}k_{46}k_{34} \oplus k_{73}k_{72}k_{47}k_{46}k_{34} \oplus$

$k_{72}k_{71}k_{47}k_{46}k_{34} \oplus k_{67}k_{47}k_{46}k_{34} \oplus k_{66}k_{65}k_{47}k_{46}k_{34} \oplus k_{71}k_{45}k_{34} \oplus$

$k_{70}k_{69}k_{45}k_{34} \oplus k_{55}k_{45}k_{34} \oplus k_{72}k_{44}k_{34} \oplus k_{71}k_{70}k_{44}k_{34} \oplus k_{55}k_{44}k_{34} \oplus$

$k_{43}k_{34} \oplus k_{41}k_{34} \oplus k_{73}k_{41}k_{34} \oplus k_{72}k_{71}k_{41}k_{34} \oplus k_{46}k_{41}k_{34} \oplus k_{48}k_{40}k_{34} \oplus$

$k_{47}k_{46}k_{40}k_{34} \oplus k_{77}k_{35}k_{34} \oplus k_{76}k_{75}k_{35}k_{34} \oplus k_{74}k_{35}k_{34} \oplus k_{73}k_{35}k_{34} \oplus$

$k_{73}k_{72}k_{35}k_{34} \oplus k_{72}k_{71}k_{35}k_{34} \oplus k_{67}k_{35}k_{34} \oplus k_{66}k_{35}k_{34} \oplus k_{66}k_{65}k_{35}k_{34} \oplus$

$k_{67}k_{64}k_{35}k_{34} \oplus k_{66}k_{65}k_{64}k_{35}k_{34} \oplus k_{62}k_{35}k_{34} \oplus k_{57}k_{35}k_{34} \oplus k_{55}k_{35}k_{34} \oplus$

$k_{66}k_{54}k_{35}k_{34} \oplus k_{50}k_{35}k_{34} \oplus k_{47}k_{35}k_{34} \oplus k_{46}k_{35}k_{34} \oplus k_{40}k_{35}k_{34} \oplus$

$k_{64}k_{40}k_{35}k_{34} \oplus k_{33} \oplus k_{79}k_{33} \oplus k_{78}k_{33} \oplus k_{78}k_{77}k_{33} \oplus k_{76}k_{33} \oplus k_{78}k_{76}k_{33} \oplus$

$k_{77}k_{76}k_{33} \oplus k_{78}k_{75}k_{74}k_{33} \oplus k_{77}k_{75}k_{74}k_{33} \oplus k_{76}k_{75}k_{74}k_{33} \oplus$

$k_{77}k_{76}k_{75}k_{74}k_{33} \oplus k_{73}k_{33} \oplus k_{78}k_{73}k_{33} \oplus k_{79}k_{78}k_{73}k_{33} \oplus k_{77}k_{76}k_{73}k_{33} \oplus$

$k_{74}k_{73}k_{33} \oplus k_{76}k_{74}k_{73}k_{33} \oplus k_{75}k_{74}k_{73}k_{33} \oplus k_{71}k_{33} \oplus k_{78}k_{72}k_{71}k_{33} \oplus$

$k_{79}k_{78}k_{72}k_{71}k_{33} \oplus k_{77}k_{76}k_{72}k_{71}k_{33} \oplus k_{74}k_{72}k_{71}k_{33} \oplus k_{73}k_{72}k_{71}k_{33} \oplus$

$k_{73}k_{71}k_{70}k_{33} \oplus k_{72}k_{71}k_{70}k_{33} \oplus k_{70}k_{69}k_{33} \oplus k_{68}k_{33} \oplus k_{66}k_{33} \oplus k_{64}k_{33} \oplus$

$k_{79}k_{64}k_{33} \oplus k_{78}k_{77}k_{64}k_{33} \oplus k_{75}k_{64}k_{33} \oplus k_{73}k_{64}k_{33} \oplus k_{74}k_{73}k_{64}k_{33} \oplus$

$k_{72}k_{71}k_{64}k_{33} \oplus k_{63}k_{33} \oplus k_{62}k_{33} \oplus k_{61}k_{33} \oplus k_{78}k_{61}k_{33} \oplus k_{77}k_{76}k_{61}k_{33} \oplus$

$k_{74}k_{61}k_{33} \oplus k_{73}k_{61}k_{33} \oplus k_{73}k_{72}k_{61}k_{33} \oplus k_{72}k_{71}k_{61}k_{33} \oplus k_{64}k_{61}k_{33} \oplus$

$k_{62}k_{61}k_{33} \oplus k_{61}k_{60}k_{33} \oplus k_{59}k_{33} \oplus k_{78}k_{59}k_{33} \oplus k_{77}k_{76}k_{59}k_{33} \oplus k_{74}k_{59}k_{33} \oplus$

$k_{73}k_{59}k_{33} \oplus k_{73}k_{72}k_{59}k_{33} \oplus k_{71}k_{59}k_{33} \oplus k_{72}k_{71}k_{59}k_{33} \oplus k_{70}k_{69}k_{59}k_{33} \oplus$

$k_{66}k_{59}k_{33} \oplus k_{79}k_{64}k_{59}k_{33} \oplus k_{78}k_{77}k_{64}k_{59}k_{33} \oplus k_{75}k_{64}k_{59}k_{33} \oplus$

$k_{74}k_{73}k_{64}k_{59}k_{33} \oplus k_{60}k_{59}k_{33} \oplus k_{78}k_{60}k_{59}k_{33} \oplus k_{77}k_{76}k_{60}k_{59}k_{33} \oplus$

$k_{74}k_{60}k_{59}k_{33} \oplus k_{73}k_{60}k_{59}k_{33} \oplus k_{73}k_{72}k_{60}k_{59}k_{33} \oplus k_{72}k_{71}k_{60}k_{59}k_{33} \oplus$

$k_{64}k_{60}k_{59}k_{33} \oplus k_{58}k_{33} \oplus k_{77}k_{76}k_{58}k_{33} \oplus k_{74}k_{58}k_{33} \oplus k_{75}k_{74}k_{58}k_{33} \oplus$

$k_{77}k_{75}k_{74}k_{58}k_{33} \oplus k_{76}k_{75}k_{74}k_{58}k_{33} \oplus k_{73}k_{58}k_{33} \oplus k_{76}k_{74}k_{73}k_{58}k_{33} \oplus$

$k_{75}k_{74}k_{73}k_{58}k_{33} \oplus k_{72}k_{58}k_{33} \oplus k_{73}k_{72}k_{58}k_{33} \oplus k_{72}k_{71}k_{58}k_{33} \oplus$

$k_{71}k_{70}k_{58}k_{33} \oplus k_{64}k_{58}k_{33} \oplus k_{79}k_{64}k_{58}k_{33} \oplus k_{78}k_{77}k_{64}k_{58}k_{33} \oplus$

$k_{75}k_{64}k_{58}k_{33} \oplus k_{74}k_{73}k_{64}k_{58}k_{33} \oplus k_{63}k_{58}k_{33} \oplus k_{61}k_{58}k_{33} \oplus k_{62}k_{61}k_{58}k_{33} \oplus$

$k_{59}k_{58}k_{33} \oplus k_{78}k_{59}k_{58}k_{33} \oplus k_{77}k_{76}k_{59}k_{58}k_{33} \oplus k_{74}k_{59}k_{58}k_{33} \oplus$

$k_{73}k_{59}k_{58}k_{33} \oplus k_{73}k_{72}k_{59}k_{58}k_{33} \oplus k_{72}k_{71}k_{59}k_{58}k_{33} \oplus k_{64}k_{59}k_{58}k_{33} \oplus$

$k_{79}k_{64}k_{59}k_{58}k_{33} \oplus k_{78}k_{77}k_{64}k_{59}k_{58}k_{33} \oplus k_{75}k_{64}k_{59}k_{58}k_{33} \oplus$

$k_{74}k_{73}k_{64}k_{59}k_{58}k_{33} \oplus k_{60}k_{59}k_{58}k_{33} \oplus k_{75}k_{57}k_{33} \oplus k_{74}k_{57}k_{33} \oplus$

$k_{74}k_{73}k_{57}k_{33} \oplus k_{73}k_{72}k_{57}k_{33} \oplus k_{61}k_{57}k_{33} \oplus k_{59}k_{57}k_{33} \oplus k_{60}k_{59}k_{57}k_{33} \oplus$

$k_{58}k_{57}k_{33} \oplus k_{71}k_{58}k_{57}k_{33} \oplus k_{70}k_{69}k_{58}k_{57}k_{33} \oplus k_{66}k_{58}k_{57}k_{33} \oplus$

$k_{64}k_{58}k_{57}k_{33} \oplus k_{59}k_{58}k_{57}k_{33} \oplus k_{56}k_{33} \oplus k_{78}k_{56}k_{33} \oplus k_{77}k_{76}k_{56}k_{33} \oplus$

$k_{74}k_{56}k_{33} \oplus k_{78}k_{73}k_{56}k_{33} \oplus k_{77}k_{76}k_{73}k_{56}k_{33} \oplus k_{72}k_{56}k_{33} \oplus k_{73}k_{72}k_{56}k_{33} \oplus$

$k_{78}k_{72}k_{71}k_{56}k_{33} \oplus k_{77}k_{76}k_{72}k_{71}k_{56}k_{33} \oplus k_{71}k_{70}k_{56}k_{33} \oplus k_{64}k_{56}k_{33} \oplus$

$k_{73}k_{64}k_{56}k_{33} \oplus k_{72}k_{71}k_{64}k_{56}k_{33} \oplus k_{61}k_{56}k_{33} \oplus k_{78}k_{61}k_{56}k_{33} \oplus$

$k_{77}k_{76}k_{61}k_{56}k_{33} \oplus k_{64}k_{61}k_{56}k_{33} \oplus k_{59}k_{56}k_{33} \oplus k_{60}k_{59}k_{56}k_{33} \oplus$

$k_{78}k_{60}k_{59}k_{56}k_{33} \oplus k_{77}k_{76}k_{60}k_{59}k_{56}k_{33} \oplus k_{64}k_{60}k_{59}k_{56}k_{33} \oplus k_{58}k_{57}k_{56}k_{33} \oplus$

$k_{54}k_{33} \oplus k_{73}k_{53}k_{33} \oplus k_{72}k_{71}k_{53}k_{33} \oplus k_{52}k_{33} \oplus k_{64}k_{52}k_{33} \oplus k_{64}k_{59}k_{52}k_{33} \oplus$

$k_{64}k_{58}k_{52}k_{33} \oplus k_{64}k_{59}k_{58}k_{52}k_{33} \oplus k_{51}k_{33} \oplus k_{76}k_{51}k_{33} \oplus k_{75}k_{74}k_{51}k_{33} \oplus$

$k_{73}k_{51}k_{33} \oplus k_{72}k_{71}k_{51}k_{33} \oplus k_{61}k_{51}k_{33} \oplus k_{59}k_{51}k_{33} \oplus k_{60}k_{59}k_{51}k_{33} \oplus$

$k_{59}k_{58}k_{51}k_{33} \oplus k_{56}k_{51}k_{33} \oplus k_{73}k_{56}k_{51}k_{33} \oplus k_{72}k_{71}k_{56}k_{51}k_{33} \oplus$

$k_{61}k_{56}k_{51}k_{33} \oplus k_{60}k_{59}k_{56}k_{51}k_{33} \oplus k_{76}k_{50}k_{33} \oplus k_{75}k_{74}k_{50}k_{33} \oplus$

$k_{76}k_{58}k_{50}k_{33} \oplus k_{75}k_{74}k_{58}k_{50}k_{33} \oplus k_{49}k_{33} \oplus k_{78}k_{49}k_{33} \oplus k_{77}k_{49}k_{33} \oplus$

$k_{77}k_{76}k_{49}k_{33} \oplus k_{75}k_{49}k_{33} \oplus k_{76}k_{75}k_{49}k_{33} \oplus k_{74}k_{73}k_{49}k_{33} \oplus k_{77}k_{58}k_{49}k_{33} \oplus$

$k_{75}k_{58}k_{49}k_{33} \oplus k_{76}k_{75}k_{58}k_{49}k_{33} \oplus k_{74}k_{73}k_{58}k_{49}k_{33} \oplus k_{57}k_{49}k_{33}\oplus$

$k_{51}k_{49}k_{33} \oplus k_{50}k_{49}k_{33} \oplus k_{58}k_{50}k_{49}k_{33} \oplus k_{48}k_{33} \oplus k_{76}k_{48}k_{33} \oplus k_{74}k_{48}k_{33}\oplus$

$k_{75}k_{74}k_{48}k_{33} \oplus k_{73}k_{48}k_{33} \oplus k_{72}k_{48}k_{33} \oplus k_{73}k_{72}k_{48}k_{33} \oplus k_{72}k_{71}k_{48}k_{33}\oplus$

$k_{71}k_{70}k_{48}k_{33} \oplus k_{64}k_{48}k_{33} \oplus k_{64}k_{59}k_{48}k_{33} \oplus k_{76}k_{58}k_{48}k_{33}\oplus$

$k_{75}k_{74}k_{58}k_{48}k_{33} \oplus k_{72}k_{58}k_{48}k_{33} \oplus k_{71}k_{70}k_{58}k_{48}k_{33} \oplus k_{64}k_{58}k_{48}k_{33}\oplus$

$k_{64}k_{59}k_{58}k_{48}k_{33} \oplus k_{57}k_{48}k_{33} \oplus k_{49}k_{48}k_{33} \oplus k_{58}k_{49}k_{48}k_{33} \oplus k_{47}k_{33}\oplus$

$k_{73}k_{47}k_{33} \oplus k_{72}k_{47}k_{33} \oplus k_{72}k_{71}k_{47}k_{33} \oplus k_{71}k_{70}k_{47}k_{33} \oplus k_{64}k_{47}k_{33}\oplus$

$k_{75}k_{64}k_{47}k_{33} \oplus k_{74}k_{73}k_{64}k_{47}k_{33} \oplus k_{61}k_{47}k_{33} \oplus k_{59}k_{47}k_{33} \oplus k_{60}k_{59}k_{47}k_{33}\oplus$

$k_{72}k_{58}k_{47}k_{33} \oplus k_{71}k_{70}k_{58}k_{47}k_{33} \oplus k_{64}k_{58}k_{47}k_{33} \oplus k_{75}k_{64}k_{58}k_{47}k_{33}\oplus$

$k_{74}k_{73}k_{64}k_{58}k_{47}k_{33} \oplus k_{59}k_{58}k_{47}k_{33} \oplus k_{57}k_{47}k_{33} \oplus k_{56}k_{47}k_{33} \oplus k_{48}k_{47}k_{33}\oplus$

$k_{64}k_{48}k_{47}k_{33} \oplus k_{64}k_{58}k_{48}k_{47}k_{33} \oplus k_{57}k_{48}k_{47}k_{33} \oplus k_{46}k_{33} \oplus k_{78}k_{46}k_{33}\oplus$

$k_{79}k_{78}k_{46}k_{33} \oplus k_{77}k_{76}k_{46}k_{33} \oplus k_{74}k_{46}k_{33} \oplus k_{72}k_{46}k_{33} \oplus k_{73}k_{72}k_{46}k_{33}\oplus$

$k_{71}k_{70}k_{46}k_{33} \oplus k_{64}k_{46}k_{33} \oplus k_{61}k_{46}k_{33} \oplus k_{59}k_{46}k_{33} \oplus k_{60}k_{59}k_{46}k_{33}\oplus$

$k_{59}k_{58}k_{46}k_{33} \oplus k_{78}k_{56}k_{46}k_{33} \oplus k_{77}k_{76}k_{56}k_{46}k_{33} \oplus k_{64}k_{56}k_{46}k_{33}\oplus$

$k_{53}k_{46}k_{33} \oplus k_{51}k_{46}k_{33} \oplus k_{56}k_{51}k_{46}k_{33} \oplus k_{48}k_{46}k_{33} \oplus k_{74}k_{47}k_{46}k_{33}\oplus$

$k_{73}k_{47}k_{46}k_{33} \oplus k_{72}k_{47}k_{46}k_{33} \oplus k_{73}k_{72}k_{47}k_{46}k_{33} \oplus k_{72}k_{71}k_{47}k_{46}k_{33}\oplus$

$k_{71}k_{70}k_{47}k_{46}k_{33} \oplus k_{72}k_{58}k_{47}k_{46}k_{33} \oplus k_{71}k_{70}k_{58}k_{47}k_{46}k_{33} \oplus k_{73}k_{45}k_{33}\oplus$

$k_{72}k_{71}k_{45}k_{33} \oplus k_{58}k_{45}k_{33} \oplus k_{56}k_{45}k_{33} \oplus k_{48}k_{45}k_{33} \oplus k_{58}k_{48}k_{45}k_{33}\oplus$

$k_{47}k_{45}k_{33} \oplus k_{58}k_{47}k_{45}k_{33} \oplus k_{46}k_{45}k_{33} \oplus k_{72}k_{46}k_{45}k_{33} \oplus k_{71}k_{70}k_{46}k_{45}k_{33}\oplus$

$k_{64}k_{46}k_{45}k_{33} \oplus k_{75}k_{64}k_{46}k_{45}k_{33} \oplus k_{74}k_{73}k_{64}k_{46}k_{45}k_{33} \oplus k_{72}k_{58}k_{46}k_{45}k_{33}\oplus$

$k_{71}k_{70}k_{58}k_{46}k_{45}k_{33} \oplus k_{64}k_{58}k_{46}k_{45}k_{33} \oplus k_{75}k_{64}k_{58}k_{46}k_{45}k_{33}\oplus$

$k_{74}k_{73}k_{64}k_{58}k_{46}k_{45}k_{33} \oplus k_{64}k_{48}k_{46}k_{45}k_{33} \oplus k_{64}k_{58}k_{48}k_{46}k_{45}k_{33}\oplus$

$k_{47}k_{46}k_{45}k_{33} \oplus k_{58}k_{47}k_{46}k_{45}k_{33} \oplus k_{44}k_{33} \oplus k_{59}k_{44}k_{33} \oplus k_{58}k_{57}k_{44}k_{33}\oplus$

$k_{58}k_{45}k_{44}k_{33} \oplus k_{42}k_{33} \oplus k_{58}k_{42}k_{33} \oplus k_{41}k_{33} \oplus k_{40}k_{33} \oplus k_{58}k_{40}k_{33}\oplus$

$k_{36}k_{33} \oplus k_{58}k_{36}k_{33} \oplus k_{35}k_{33} \oplus k_{34}k_{33} \oplus k_{78}k_{34}k_{33} \oplus k_{77}k_{76}k_{34}k_{33}\oplus$

$k_{74}k_{34}k_{33} \oplus k_{73}k_{34}k_{33} \oplus k_{73}k_{72}k_{34}k_{33} \oplus k_{72}k_{71}k_{34}k_{33} \oplus k_{64}k_{34}k_{33}\oplus$

$k_{58}k_{34}k_{33} \oplus k_{57}k_{34}k_{33} \oplus k_{78}k_{56}k_{34}k_{33} \oplus k_{77}k_{76}k_{56}k_{34}k_{33} \oplus k_{64}k_{56}k_{34}k_{33}\oplus$

$k_{51}k_{34}k_{33} \oplus k_{56}k_{51}k_{34}k_{33} \oplus k_{47}k_{34}k_{33} \oplus k_{46}k_{34}k_{33} \oplus k_{77}k_{76}k_{32}\oplus$

$k_{76}k_{75}k_{32} \oplus k_{77}k_{75}k_{74}k_{32} \oplus k_{76}k_{75}k_{74}k_{32} \oplus k_{72}k_{32} \oplus k_{71}k_{32} \oplus k_{71}k_{70}k_{32}\oplus$

$k_{70}k_{69}k_{32} \oplus k_{66}k_{32} \oplus k_{64}k_{32} \oplus k_{79}k_{64}k_{32} \oplus k_{78}k_{77}k_{64}k_{32} \oplus k_{73}k_{64}k_{32}\oplus$

$k_{72}k_{71}k_{64}k_{32} \oplus k_{63}k_{32} \oplus k_{62}k_{32} \oplus k_{61}k_{32} \oplus k_{62}k_{61}k_{32} \oplus k_{60}k_{32}\oplus$

$k_{78}k_{60}k_{32} \oplus k_{77}k_{76}k_{60}k_{32} \oplus k_{74}k_{60}k_{32} \oplus k_{73}k_{60}k_{32} \oplus k_{73}k_{72}k_{60}k_{32}\oplus$

$k_{71}k_{60}k_{32} \oplus k_{72}k_{71}k_{60}k_{32} \oplus k_{70}k_{69}k_{60}k_{32} \oplus k_{66}k_{60}k_{32} \oplus k_{79}k_{64}k_{60}k_{32}\oplus$

$k_{78}k_{77}k_{64}k_{60}k_{32} \oplus k_{75}k_{64}k_{60}k_{32} \oplus k_{74}k_{73}k_{64}k_{60}k_{32} \oplus k_{61}k_{60}k_{32}\oplus$

$k_{60}k_{59}k_{32} \oplus k_{58}k_{32} \oplus k_{78}k_{58}k_{32} \oplus k_{77}k_{76}k_{58}k_{32} \oplus k_{74}k_{58}k_{32} \oplus k_{73}k_{58}k_{32}\oplus$

$k_{72}k_{58}k_{32} \oplus k_{73}k_{72}k_{58}k_{32} \oplus k_{72}k_{71}k_{58}k_{32} \oplus k_{71}k_{70}k_{58}k_{32} \oplus k_{64}k_{58}k_{32}\oplus$

$$k_{79}k_{64}k_{58}k_{32} \oplus k_{78}k_{77}k_{64}k_{58}k_{32} \oplus k_{75}k_{64}k_{58}k_{32} \oplus k_{74}k_{73}k_{64}k_{58}k_{32}\oplus$$

$$k_{60}k_{58}k_{32} \oplus k_{78}k_{60}k_{58}k_{32} \oplus k_{77}k_{76}k_{60}k_{58}k_{32} \oplus k_{74}k_{60}k_{58}k_{32}\oplus$$

$$k_{73}k_{60}k_{58}k_{32} \oplus k_{73}k_{72}k_{60}k_{58}k_{32} \oplus k_{72}k_{71}k_{60}k_{58}k_{32} \oplus k_{64}k_{60}k_{58}k_{32}\oplus$$

$$k_{79}k_{64}k_{60}k_{58}k_{32} \oplus k_{78}k_{77}k_{64}k_{60}k_{58}k_{32} \oplus k_{75}k_{64}k_{60}k_{58}k_{32}\oplus$$

$$k_{74}k_{73}k_{64}k_{60}k_{58}k_{32} \oplus k_{59}k_{58}k_{32} \oplus k_{71}k_{59}k_{58}k_{32} \oplus k_{70}k_{69}k_{59}k_{58}k_{32}\oplus$$

$$k_{66}k_{59}k_{58}k_{32} \oplus k_{64}k_{59}k_{58}k_{32} \oplus k_{57}k_{32} \oplus k_{60}k_{57}k_{32} \oplus k_{58}k_{57}k_{32}\oplus$$

$$k_{60}k_{58}k_{57}k_{32} \oplus k_{77}k_{56}k_{32} \oplus k_{76}k_{75}k_{56}k_{32} \oplus k_{60}k_{56}k_{32} \oplus k_{59}k_{58}k_{56}k_{32}\oplus$$

$$k_{55}k_{32} \oplus k_{64}k_{52}k_{32} \oplus k_{64}k_{60}k_{52}k_{32} \oplus k_{64}k_{58}k_{52}k_{32} \oplus k_{64}k_{60}k_{58}k_{52}k_{32}\oplus$$

$$k_{60}k_{51}k_{32} \oplus k_{58}k_{51}k_{32} \oplus k_{60}k_{58}k_{51}k_{32} \oplus k_{76}k_{50}k_{32} \oplus k_{75}k_{74}k_{50}k_{32}\oplus$$

$$k_{56}k_{50}k_{32} \oplus k_{49}k_{32} \oplus k_{77}k_{49}k_{32} \oplus k_{76}k_{75}k_{49}k_{32} \oplus k_{56}k_{49}k_{32} \oplus k_{50}k_{49}k_{32}\oplus$$

$$k_{72}k_{48}k_{32} \oplus k_{71}k_{70}k_{48}k_{32} \oplus k_{64}k_{60}k_{48}k_{32} \oplus k_{72}k_{58}k_{48}k_{32}\oplus$$

$$k_{71}k_{70}k_{58}k_{48}k_{32} \oplus k_{64}k_{58}k_{48}k_{32} \oplus k_{64}k_{60}k_{58}k_{48}k_{32} \oplus k_{47}k_{32} \oplus k_{72}k_{47}k_{32}\oplus$$

$$k_{71}k_{70}k_{47}k_{32} \oplus k_{64}k_{47}k_{32} \oplus k_{75}k_{64}k_{47}k_{32} \oplus k_{74}k_{73}k_{64}k_{47}k_{32} \oplus k_{60}k_{47}k_{32}\oplus$$

$$k_{58}k_{47}k_{32} \oplus k_{72}k_{58}k_{47}k_{32} \oplus k_{71}k_{70}k_{58}k_{47}k_{32} \oplus k_{64}k_{58}k_{47}k_{32}\oplus$$

$$k_{75}k_{64}k_{58}k_{47}k_{32} \oplus k_{74}k_{73}k_{64}k_{58}k_{47}k_{32} \oplus k_{60}k_{58}k_{47}k_{32} \oplus k_{48}k_{47}k_{32}\oplus$$

$$k_{64}k_{48}k_{47}k_{32} \oplus k_{64}k_{58}k_{48}k_{47}k_{32} \oplus k_{56}k_{48}k_{47}k_{32} \oplus k_{64}k_{46}k_{32} \oplus k_{60}k_{46}k_{32}\oplus$$

$$k_{58}k_{46}k_{32} \oplus k_{60}k_{58}k_{46}k_{32} \oplus k_{72}k_{47}k_{46}k_{32} \oplus k_{71}k_{70}k_{47}k_{46}k_{32}\oplus$$

$$k_{72}k_{58}k_{47}k_{46}k_{32} \oplus k_{71}k_{70}k_{58}k_{47}k_{46}k_{32} \oplus k_{45}k_{32} \oplus k_{58}k_{45}k_{32} \oplus k_{48}k_{45}k_{32}\oplus$$

$$k_{58}k_{48}k_{45}k_{32} \oplus k_{47}k_{45}k_{32} \oplus k_{58}k_{47}k_{45}k_{32} \oplus k_{72}k_{46}k_{45}k_{32}\oplus$$

$$k_{71}k_{70}k_{46}k_{45}k_{32} \oplus k_{64}k_{46}k_{45}k_{32} \oplus k_{75}k_{64}k_{46}k_{45}k_{32} \oplus k_{74}k_{73}k_{64}k_{46}k_{45}k_{32}\oplus$$

$$k_{58}k_{46}k_{45}k_{32} \oplus k_{72}k_{58}k_{46}k_{45}k_{32} \oplus k_{71}k_{70}k_{58}k_{46}k_{45}k_{32} \oplus k_{64}k_{58}k_{46}k_{45}k_{32}\oplus$$

$$k_{75}k_{64}k_{58}k_{46}k_{45}k_{32} \oplus k_{74}k_{73}k_{64}k_{58}k_{46}k_{45}k_{32} \oplus k_{64}k_{48}k_{46}k_{45}k_{32}\oplus$$

$$k_{64}k_{58}k_{48}k_{46}k_{45}k_{32} \oplus k_{47}k_{46}k_{45}k_{32} \oplus k_{58}k_{47}k_{46}k_{45}k_{32} \oplus k_{44}k_{32}\oplus$$

$$k_{60}k_{44}k_{32} \oplus k_{59}k_{58}k_{44}k_{32} \oplus k_{42}k_{32} \oplus k_{36}k_{32} \oplus k_{35}k_{32} \oplus k_{34}k_{32}\oplus$$

$$k_{78}k_{33}k_{32} \oplus k_{77}k_{76}k_{33}k_{32} \oplus k_{73}k_{33}k_{32} \oplus k_{71}k_{33}k_{32} \oplus k_{72}k_{71}k_{33}k_{32}\oplus$$

$$k_{70}k_{33}k_{32} \oplus k_{70}k_{69}k_{33}k_{32} \oplus k_{69}k_{68}k_{33}k_{32} \oplus k_{66}k_{33}k_{32} \oplus k_{79}k_{64}k_{33}k_{32}\oplus$$

$$k_{78}k_{77}k_{64}k_{33}k_{32} \oplus k_{75}k_{64}k_{33}k_{32} \oplus k_{74}k_{73}k_{64}k_{33}k_{32} \oplus k_{62}k_{33}k_{32}\oplus$$

$$k_{60}k_{33}k_{32} \oplus k_{58}k_{33}k_{32} \oplus k_{78}k_{58}k_{33}k_{32} \oplus k_{77}k_{76}k_{58}k_{33}k_{32} \oplus k_{74}k_{58}k_{33}k_{32}\oplus$$

$$k_{73}k_{58}k_{33}k_{32} \oplus k_{73}k_{72}k_{58}k_{33}k_{32} \oplus k_{72}k_{71}k_{58}k_{33}k_{32} \oplus k_{64}k_{58}k_{33}k_{32}\oplus$$

$$k_{79}k_{64}k_{58}k_{33}k_{32} \oplus k_{78}k_{77}k_{64}k_{58}k_{33}k_{32} \oplus k_{75}k_{64}k_{58}k_{33}k_{32}\oplus$$

$$k_{74}k_{73}k_{64}k_{58}k_{33}k_{32} \oplus k_{64}k_{57}k_{33}k_{32} \oplus k_{58}k_{57}k_{33}k_{32} \oplus k_{56}k_{33}k_{32}\oplus$$

$$k_{64}k_{52}k_{33}k_{32} \oplus k_{64}k_{58}k_{52}k_{33}k_{32} \oplus k_{51}k_{33}k_{32} \oplus k_{58}k_{51}k_{33}k_{32}\oplus$$

$$k_{64}k_{48}k_{33}k_{32} \oplus k_{64}k_{58}k_{48}k_{33}k_{32} \oplus k_{58}k_{47}k_{33}k_{32} \oplus k_{46}k_{33}k_{32}\oplus$$

$$k_{58}k_{46}k_{33}k_{32} \oplus k_{44}k_{33}k_{32} \oplus k_{43}k_{33}k_{32} \oplus k_{79}k_{31} \oplus k_{78}k_{77}k_{31}\oplus$$

$$k_{79}k_{78}k_{77}k_{31} \oplus k_{76}k_{31} \oplus k_{75}k_{74}k_{31} \oplus k_{68}k_{31} \oplus k_{79}k_{68}k_{31} \oplus k_{78}k_{77}k_{68}k_{31}\oplus$$

$$k_{66}k_{31} \oplus k_{65}k_{64}k_{31} \oplus k_{62}k_{31} \oplus k_{61}k_{31} \oplus k_{70}k_{60}k_{31} \oplus k_{69}k_{68}k_{60}k_{31}\oplus$$

$k_{60}k_{59}k_{31} \oplus k_{58}k_{31} \oplus k_{60}k_{55}k_{31} \oplus k_{54}k_{31} \oplus k_{53}k_{31} \oplus k_{79}k_{53}k_{31} \oplus$

$k_{78}k_{77}k_{53}k_{31} \oplus k_{60}k_{54}k_{53}k_{31} \oplus k_{52}k_{31} \oplus k_{79}k_{78}k_{52}k_{31} \oplus k_{68}k_{52}k_{31} \oplus$

$k_{53}k_{52}k_{31} \oplus k_{49}k_{31} \oplus k_{48}k_{31} \oplus k_{47}k_{31} \oplus k_{47}k_{46}k_{31} \oplus k_{45}k_{31} \oplus k_{46}k_{45}k_{31} \oplus$

$k_{60}k_{43}k_{31} \oplus k_{39}k_{31} \oplus k_{34}k_{31} \oplus k_{58}k_{32}k_{31} \oplus k_{30} \oplus k_{78}k_{30} \oplus k_{77}k_{76}k_{30} \oplus$

$k_{71}k_{30} \oplus k_{70}k_{69}k_{30} \oplus k_{70}k_{60}k_{30} \oplus k_{69}k_{68}k_{60}k_{30} \oplus k_{78}k_{58}k_{30} \oplus$

$k_{77}k_{76}k_{58}k_{30} \oplus k_{72}k_{57}k_{30} \oplus k_{71}k_{70}k_{57}k_{30} \oplus k_{60}k_{55}k_{30} \oplus k_{60}k_{54}k_{53}k_{30} \oplus$

$k_{51}k_{30} \oplus k_{58}k_{51}k_{30} \oplus k_{57}k_{45}k_{30} \oplus k_{44}k_{30} \oplus k_{60}k_{43}k_{30} \oplus k_{60}k_{42}k_{30} \oplus$

$k_{60}k_{41}k_{40}k_{30} \oplus k_{31}k_{30} \oplus k_{58}k_{31}k_{30} \oplus k_{79}k_{78}k_{74}k_{29} \oplus k_{79}k_{78}k_{73}k_{72}k_{29} \oplus$

$k_{71}k_{29} \oplus k_{70}k_{29} \oplus k_{70}k_{69}k_{29} \oplus k_{69}k_{68}k_{29} \oplus k_{67}k_{29} \oplus k_{66}k_{65}k_{29} \oplus$

$k_{79}k_{78}k_{60}k_{29} \oplus k_{73}k_{60}k_{29} \oplus k_{79}k_{78}k_{73}k_{60}k_{29} \oplus k_{72}k_{71}k_{60}k_{29} \oplus$

$k_{79}k_{78}k_{72}k_{71}k_{60}k_{29} \oplus k_{70}k_{60}k_{29} \oplus k_{69}k_{68}k_{60}k_{29} \oplus k_{65}k_{60}k_{29} \oplus k_{65}k_{58}k_{29} \oplus$

$k_{56}k_{29} \oplus k_{55}k_{29} \oplus k_{54}k_{29} \oplus k_{79}k_{78}k_{54}k_{29} \oplus k_{74}k_{53}k_{29} \oplus k_{73}k_{72}k_{53}k_{29} \oplus$

$k_{60}k_{53}k_{29} \oplus k_{73}k_{60}k_{53}k_{29} \oplus k_{72}k_{71}k_{60}k_{53}k_{29} \oplus k_{54}k_{53}k_{29} \oplus k_{60}k_{54}k_{53}k_{29} \oplus$

$k_{79}k_{78}k_{47}k_{29} \oplus k_{53}k_{47}k_{29} \oplus k_{60}k_{46}k_{29} \oplus k_{79}k_{78}k_{60}k_{46}k_{29} \oplus k_{60}k_{53}k_{46}k_{29} \oplus$

$k_{44}k_{29} \oplus k_{43}k_{29} \oplus k_{60}k_{43}k_{29} \oplus k_{42}k_{29} \oplus k_{40}k_{29} \oplus k_{41}k_{40}k_{29} \oplus k_{30}k_{29} \oplus$

$k_{62}k_{30}k_{29} \oplus k_{70}k_{60}k_{28} \oplus k_{69}k_{60}k_{28} \oplus k_{69}k_{68}k_{60}k_{28} \oplus k_{68}k_{67}k_{60}k_{28} \oplus$

$k_{60}k_{58}k_{28} \oplus k_{60}k_{56}k_{28} \oplus k_{60}k_{57}k_{56}k_{28} \oplus k_{60}k_{56}k_{55}k_{28} \oplus k_{60}k_{55}k_{54}k_{28} \oplus$

$k_{60}k_{42}k_{28} \oplus k_{60}k_{42}k_{41}k_{28} \oplus k_{60}k_{31}k_{28} \oplus k_{60}k_{30}k_{28} \oplus k_{78}k_{29}k_{28} \oplus$

$k_{77}k_{76}k_{29}k_{28} \oplus k_{71}k_{29}k_{28} \oplus k_{70}k_{69}k_{29}k_{28} \oplus k_{60}k_{29}k_{28} \oplus k_{78}k_{58}k_{29}k_{28} \oplus$

$k_{77}k_{76}k_{58}k_{29}k_{28} \oplus k_{57}k_{29}k_{28} \oplus k_{72}k_{57}k_{29}k_{28} \oplus k_{71}k_{70}k_{57}k_{29}k_{28} \oplus$

$k_{51}k_{29}k_{28} \oplus k_{58}k_{51}k_{29}k_{28} \oplus k_{57}k_{45}k_{29}k_{28} \oplus k_{44}k_{29}k_{28} \oplus k_{27} \oplus k_{57}k_{28}k_{27} \oplus$

$k_{56}k_{28}k_{27} \oplus k_{57}k_{30}k_{28}k_{27} \oplus k_{57}k_{29}k_{28}k_{27} \oplus k_{79}k_{78}k_{26} \oplus k_{68}k_{26} \oplus k_{64}k_{26} \oplus$

$k_{79}k_{78}k_{62}k_{26} \oplus k_{68}k_{62}k_{26} \oplus k_{64}k_{62}k_{26} \oplus k_{79}k_{78}k_{61}k_{60}k_{26} \oplus k_{68}k_{61}k_{60}k_{26} \oplus$

$k_{64}k_{61}k_{60}k_{26} \oplus k_{53}k_{26} \oplus k_{62}k_{53}k_{26} \oplus k_{61}k_{60}k_{53}k_{26} \oplus k_{79}k_{78}k_{35}k_{26} \oplus$

$k_{68}k_{35}k_{26} \oplus k_{64}k_{35}k_{26} \oplus k_{53}k_{35}k_{26} \oplus k_{25} \oplus k_{79}k_{25} \oplus k_{79}k_{78}k_{25} \oplus$

$k_{78}k_{77}k_{25} \oplus k_{79}k_{78}k_{77}k_{25} \oplus k_{70}k_{25} \oplus k_{69}k_{25} \oplus k_{79}k_{68}k_{25} \oplus k_{78}k_{77}k_{68}k_{25} \oplus$

$k_{69}k_{68}k_{25} \oplus k_{68}k_{67}k_{25} \oplus k_{66}k_{25} \oplus k_{69}k_{65}k_{25} \oplus k_{68}k_{67}k_{65}k_{25} \oplus k_{64}k_{25} \oplus$

$k_{65}k_{64}k_{25} \oplus k_{79}k_{78}k_{62}k_{25} \oplus k_{68}k_{62}k_{25} \oplus k_{64}k_{62}k_{25} \oplus k_{66}k_{60}k_{25} \oplus$

$k_{79}k_{78}k_{61}k_{60}k_{25} \oplus k_{68}k_{61}k_{60}k_{25} \oplus k_{64}k_{61}k_{60}k_{25} \oplus k_{59}k_{25} \oplus k_{57}k_{25} \oplus$

$k_{69}k_{56}k_{25} \oplus k_{68}k_{67}k_{56}k_{25} \oplus k_{57}k_{56}k_{25} \oplus k_{54}k_{25} \oplus k_{79}k_{53}k_{25} \oplus$

$k_{78}k_{77}k_{53}k_{25} \oplus k_{62}k_{53}k_{25} \oplus k_{61}k_{60}k_{53}k_{25} \oplus k_{52}k_{25} \oplus k_{79}k_{78}k_{52}k_{25} \oplus$

$k_{68}k_{52}k_{25} \oplus k_{53}k_{52}k_{25} \oplus k_{51}k_{25} \oplus k_{50}k_{49}k_{25} \oplus k_{45}k_{25} \oplus k_{42}k_{25} \oplus$

$k_{65}k_{42}k_{25} \oplus k_{56}k_{42}k_{25} \oplus k_{42}k_{41}k_{25} \oplus k_{39}k_{25} \oplus k_{79}k_{78}k_{35}k_{25} \oplus k_{68}k_{35}k_{25} \oplus$

$k_{64}k_{35}k_{25} \oplus k_{53}k_{35}k_{25} \oplus k_{26}k_{25} \oplus k_{77}k_{24} \oplus k_{76}k_{24} \oplus k_{76}k_{75}k_{24} \oplus k_{74}k_{24} \oplus$

$k_{75}k_{74}k_{24} \oplus k_{73}k_{24} \oplus k_{72}k_{24} \oplus k_{73}k_{72}k_{24} \oplus k_{72}k_{71}k_{24} \oplus k_{70}k_{24} \oplus$

$k_{71}k_{70}k_{24} \oplus k_{69}k_{24} \oplus k_{68}k_{24} \oplus k_{69}k_{68}k_{24} \oplus k_{67}k_{24} \oplus k_{68}k_{67}k_{24} \oplus k_{66}k_{24} \oplus$

$$k_{67}k_{66}k_{24} \oplus k_{65}k_{24} \oplus k_{66}k_{65}k_{24} \oplus k_{67}k_{64}k_{24} \oplus k_{66}k_{65}k_{64}k_{24} \oplus k_{62}k_{24} \oplus$$

$$k_{60}k_{24} \oplus k_{57}k_{24} \oplus k_{56}k_{24} \oplus k_{68}k_{56}k_{24} \oplus k_{67}k_{66}k_{56}k_{24} \oplus k_{65}k_{56}k_{24} \oplus$$

$$k_{69}k_{54}k_{24} \oplus k_{68}k_{67}k_{54}k_{24} \oplus k_{66}k_{54}k_{24} \oplus k_{57}k_{54}k_{24} \oplus k_{56}k_{54}k_{24} \oplus k_{52}k_{24} \oplus$$

$$k_{50}k_{24} \oplus k_{51}k_{50}k_{24} \oplus k_{49}k_{24} \oplus k_{47}k_{24} \oplus k_{46}k_{24} \oplus k_{45}k_{24} \oplus k_{42}k_{24} \oplus$$

$$k_{54}k_{42}k_{24} \oplus k_{41}k_{24} \oplus k_{56}k_{41}k_{24} \oplus k_{42}k_{41}k_{24} \oplus k_{40}k_{24} \oplus k_{64}k_{40}k_{24} \oplus$$

$$k_{25}k_{24} \oplus k_{56}k_{25}k_{24} \oplus k_{23} \oplus k_{77}k_{23} \oplus k_{76}k_{23} \oplus k_{76}k_{75}k_{23} \oplus k_{75}k_{74}k_{23} \oplus$$

$$k_{70}k_{23} \oplus k_{69}k_{68}k_{23} \oplus k_{67}k_{23} \oplus k_{66}k_{23} \oplus k_{65}k_{23} \oplus k_{66}k_{65}k_{23} \oplus k_{67}k_{64}k_{23} \oplus$$

$$k_{66}k_{65}k_{64}k_{23} \oplus k_{62}k_{23} \oplus k_{61}k_{23} \oplus k_{78}k_{60}k_{23} \oplus k_{77}k_{76}k_{60}k_{23} \oplus k_{75}k_{60}k_{23} \oplus$$

$$k_{74}k_{73}k_{60}k_{23} \oplus k_{62}k_{60}k_{23} \oplus k_{61}k_{60}k_{23} \oplus k_{75}k_{61}k_{60}k_{23} \oplus k_{74}k_{73}k_{61}k_{60}k_{23} \oplus$$

$$k_{75}k_{60}k_{59}k_{23} \oplus k_{74}k_{73}k_{60}k_{59}k_{23} \oplus k_{75}k_{60}k_{58}k_{23} \oplus k_{74}k_{73}k_{60}k_{58}k_{23} \oplus$$

$$k_{57}k_{23} \oplus k_{60}k_{57}k_{23} \oplus k_{55}k_{23} \oplus k_{54}k_{23} \oplus k_{66}k_{54}k_{23} \oplus k_{60}k_{51}k_{23} \oplus k_{50}k_{23} \oplus$$

$$k_{49}k_{23} \oplus k_{60}k_{48}k_{23} \oplus k_{61}k_{60}k_{48}k_{23} \oplus k_{60}k_{59}k_{48}k_{23} \oplus k_{60}k_{58}k_{48}k_{23} \oplus$$

$$k_{42}k_{23} \oplus k_{42}k_{41}k_{23} \oplus k_{40}k_{23} \oplus k_{64}k_{40}k_{23} \oplus k_{41}k_{40}k_{23} \oplus k_{60}k_{35}k_{23} \oplus$$

$$k_{75}k_{60}k_{34}k_{23} \oplus k_{74}k_{73}k_{60}k_{34}k_{23} \oplus k_{60}k_{48}k_{34}k_{23} \oplus k_{25}k_{23} \oplus k_{22} \oplus$$

$$k_{79}k_{78}k_{22} \oplus k_{77}k_{22} \oplus k_{79}k_{78}k_{76}k_{22} \oplus k_{79}k_{78}k_{77}k_{76}k_{22} \oplus k_{76}k_{75}k_{22} \oplus$$

$$k_{78}k_{74}k_{22} \oplus k_{76}k_{74}k_{22} \oplus k_{77}k_{76}k_{74}k_{22} \oplus k_{75}k_{74}k_{22} \oplus k_{79}k_{78}k_{75}k_{74}k_{22} \oplus$$

$$k_{73}k_{22} \oplus k_{78}k_{73}k_{22} \oplus k_{76}k_{73}k_{22} \oplus k_{77}k_{76}k_{73}k_{22} \oplus k_{75}k_{74}k_{73}k_{22} \oplus k_{72}k_{22} \oplus$$

$$k_{76}k_{72}k_{22} \oplus k_{75}k_{74}k_{72}k_{22} \oplus k_{78}k_{73}k_{72}k_{22} \oplus k_{76}k_{73}k_{72}k_{22} \oplus$$

$$k_{77}k_{76}k_{73}k_{72}k_{22} \oplus k_{75}k_{74}k_{73}k_{72}k_{22} \oplus k_{71}k_{22} \oplus k_{78}k_{71}k_{22} \oplus k_{79}k_{78}k_{71}k_{22} \oplus$$

$$k_{77}k_{76}k_{71}k_{22} \oplus k_{72}k_{71}k_{22} \oplus k_{78}k_{72}k_{71}k_{22} \oplus k_{76}k_{72}k_{71}k_{22} \oplus$$

$$k_{77}k_{76}k_{72}k_{71}k_{22} \oplus k_{75}k_{74}k_{72}k_{71}k_{22} \oplus k_{71}k_{70}k_{22} \oplus k_{76}k_{71}k_{70}k_{22} \oplus$$

$$k_{75}k_{74}k_{71}k_{70}k_{22} \oplus k_{70}k_{69}k_{22} \oplus k_{78}k_{70}k_{69}k_{22} \oplus k_{79}k_{78}k_{70}k_{69}k_{22} \oplus$$

$$k_{77}k_{76}k_{70}k_{69}k_{22} \oplus k_{72}k_{68}k_{22} \oplus k_{71}k_{70}k_{68}k_{22} \oplus k_{67}k_{22} \oplus k_{66}k_{65}k_{22} \oplus$$

$$k_{64}k_{22} \oplus k_{79}k_{78}k_{64}k_{22} \oplus k_{71}k_{64}k_{22} \oplus k_{70}k_{69}k_{64}k_{22} \oplus k_{67}k_{64}k_{22} \oplus$$

$$k_{65}k_{64}k_{22} \oplus k_{66}k_{65}k_{64}k_{22} \oplus k_{62}k_{22} \oplus k_{61}k_{22} \oplus k_{78}k_{61}k_{22} \oplus k_{77}k_{76}k_{61}k_{22} \oplus$$

$$k_{79}k_{78}k_{77}k_{76}k_{61}k_{22} \oplus k_{59}k_{22} \oplus k_{78}k_{59}k_{22} \oplus k_{77}k_{76}k_{59}k_{22} \oplus k_{71}k_{59}k_{22} \oplus$$

$$k_{70}k_{69}k_{59}k_{22} \oplus k_{64}k_{59}k_{22} \oplus k_{60}k_{59}k_{22} \oplus k_{78}k_{60}k_{59}k_{22} \oplus k_{77}k_{76}k_{60}k_{59}k_{22} \oplus$$

$$k_{79}k_{78}k_{77}k_{76}k_{60}k_{59}k_{22} \oplus k_{58}k_{22} \oplus k_{78}k_{58}k_{22} \oplus k_{77}k_{76}k_{58}k_{22} \oplus k_{72}k_{58}k_{22} \oplus$$

$$k_{71}k_{58}k_{22} \oplus k_{71}k_{70}k_{58}k_{22} \oplus k_{70}k_{69}k_{58}k_{22} \oplus k_{60}k_{58}k_{22} \oplus k_{57}k_{22} \oplus$$

$$k_{78}k_{57}k_{22} \oplus k_{77}k_{76}k_{57}k_{22} \oplus k_{72}k_{57}k_{22} \oplus k_{71}k_{57}k_{22} \oplus k_{71}k_{70}k_{57}k_{22} \oplus$$

$$k_{70}k_{69}k_{57}k_{22} \oplus k_{64}k_{57}k_{22} \oplus k_{61}k_{57}k_{22} \oplus k_{60}k_{57}k_{22} \oplus k_{60}k_{59}k_{57}k_{22} \oplus$$

$$k_{58}k_{57}k_{22} \oplus k_{78}k_{58}k_{57}k_{22} \oplus k_{77}k_{76}k_{58}k_{57}k_{22} \oplus k_{71}k_{58}k_{57}k_{22} \oplus$$

$$k_{70}k_{69}k_{58}k_{57}k_{22} \oplus k_{64}k_{58}k_{57}k_{22} \oplus k_{59}k_{58}k_{57}k_{22} \oplus k_{56}k_{22} \oplus k_{72}k_{56}k_{22} \oplus$$

$$k_{79}k_{78}k_{72}k_{56}k_{22} \oplus k_{71}k_{70}k_{56}k_{22} \oplus k_{79}k_{78}k_{71}k_{70}k_{56}k_{22} \oplus k_{59}k_{56}k_{22} \oplus$$

$$k_{60}k_{57}k_{56}k_{22} \oplus k_{58}k_{57}k_{56}k_{22} \oplus k_{55}k_{22} \oplus k_{72}k_{55}k_{22} \oplus k_{71}k_{70}k_{55}k_{22} \oplus$$

$$k_{54}k_{22} \oplus k_{66}k_{54}k_{22} \oplus k_{55}k_{54}k_{22} \oplus k_{78}k_{53}k_{22} \oplus k_{76}k_{53}k_{22} \oplus k_{77}k_{76}k_{53}k_{22} \oplus$$

$$k_{75}k_{74}k_{53}k_{22} \oplus k_{71}k_{53}k_{22} \oplus k_{70}k_{69}k_{53}k_{22} \oplus k_{64}k_{53}k_{22} \oplus k_{61}k_{53}k_{22}\oplus$$

$$k_{78}k_{61}k_{53}k_{22} \oplus k_{77}k_{76}k_{61}k_{53}k_{22} \oplus k_{60}k_{59}k_{53}k_{22} \oplus k_{78}k_{60}k_{59}k_{53}k_{22}\oplus$$

$$k_{77}k_{76}k_{60}k_{59}k_{53}k_{22} \oplus k_{72}k_{56}k_{53}k_{22} \oplus k_{71}k_{70}k_{56}k_{53}k_{22} \oplus k_{79}k_{78}k_{51}k_{22}\oplus$$

$$k_{74}k_{51}k_{22} \oplus k_{73}k_{51}k_{22} \oplus k_{73}k_{72}k_{51}k_{22} \oplus k_{71}k_{51}k_{22} \oplus k_{72}k_{71}k_{51}k_{22}\oplus$$

$$k_{70}k_{69}k_{51}k_{22} \oplus k_{61}k_{51}k_{22} \oplus k_{79}k_{78}k_{61}k_{51}k_{22} \oplus k_{59}k_{51}k_{22} \oplus k_{60}k_{59}k_{51}k_{22}\oplus$$

$$k_{79}k_{78}k_{60}k_{59}k_{51}k_{22} \oplus k_{58}k_{51}k_{22} \oplus k_{57}k_{51}k_{22} \oplus k_{58}k_{57}k_{51}k_{22} \oplus k_{53}k_{51}k_{22}\oplus$$

$$k_{61}k_{53}k_{51}k_{22} \oplus k_{60}k_{59}k_{53}k_{51}k_{22} \oplus k_{50}k_{22} \oplus k_{79}k_{78}k_{49}k_{22} \oplus k_{74}k_{49}k_{22}\oplus$$

$$k_{73}k_{49}k_{22} \oplus k_{72}k_{49}k_{22} \oplus k_{73}k_{72}k_{49}k_{22} \oplus k_{72}k_{71}k_{49}k_{22} \oplus k_{71}k_{70}k_{49}k_{22}\oplus$$

$$k_{53}k_{49}k_{22} \oplus k_{48}k_{22} \oplus k_{78}k_{47}k_{22} \oplus k_{76}k_{47}k_{22} \oplus k_{77}k_{76}k_{47}k_{22}\oplus$$

$$k_{75}k_{74}k_{47}k_{22} \oplus k_{51}k_{47}k_{22} \oplus k_{49}k_{47}k_{22} \oplus k_{46}k_{22} \oplus k_{78}k_{46}k_{22} \oplus k_{76}k_{46}k_{22}\oplus$$

$$k_{77}k_{76}k_{46}k_{22} \oplus k_{75}k_{74}k_{46}k_{22} \oplus k_{51}k_{46}k_{22} \oplus k_{49}k_{46}k_{22} \oplus k_{47}k_{46}k_{22}\oplus$$

$$k_{45}k_{22} \oplus k_{76}k_{45}k_{22} \oplus k_{75}k_{74}k_{45}k_{22} \oplus k_{68}k_{45}k_{22} \oplus k_{58}k_{45}k_{22} \oplus k_{57}k_{45}k_{22}\oplus$$

$$k_{56}k_{45}k_{22} \oplus k_{79}k_{78}k_{56}k_{45}k_{22} \oplus k_{55}k_{45}k_{22} \oplus k_{56}k_{53}k_{45}k_{22} \oplus k_{49}k_{45}k_{22}\oplus$$

$$k_{44}k_{22} \oplus k_{78}k_{44}k_{22} \oplus k_{79}k_{78}k_{44}k_{22} \oplus k_{77}k_{76}k_{44}k_{22} \oplus k_{64}k_{44}k_{22}\oplus$$

$$k_{60}k_{44}k_{22} \oplus k_{59}k_{44}k_{22} \oplus k_{58}k_{44}k_{22} \oplus k_{57}k_{44}k_{22} \oplus k_{58}k_{57}k_{44}k_{22}\oplus$$

$$k_{53}k_{44}k_{22} \oplus k_{51}k_{44}k_{22} \oplus k_{43}k_{22} \oplus k_{60}k_{43}k_{42}k_{22} \oplus k_{42}k_{41}k_{22} \oplus k_{40}k_{22}\oplus$$

$$k_{64}k_{40}k_{22} \oplus k_{39}k_{22} \oplus k_{34}k_{22} \oplus k_{78}k_{34}k_{22} \oplus k_{77}k_{76}k_{34}k_{22}\oplus$$

$$k_{79}k_{78}k_{77}k_{76}k_{34}k_{22} \oplus k_{57}k_{34}k_{22} \oplus k_{53}k_{34}k_{22} \oplus k_{78}k_{53}k_{34}k_{22}\oplus$$

$$k_{77}k_{76}k_{53}k_{34}k_{22} \oplus k_{51}k_{34}k_{22} \oplus k_{79}k_{78}k_{51}k_{34}k_{22} \oplus k_{53}k_{51}k_{34}k_{22}\oplus$$

$$k_{57}k_{33}k_{22} \oplus k_{32}k_{22} \oplus k_{56}k_{32}k_{22} \oplus k_{60}k_{31}k_{22} \oplus k_{29}k_{22} \oplus k_{25}k_{22}\oplus$$

$$k_{79}k_{78}k_{21} \oplus k_{76}k_{21} \oplus k_{74}k_{21} \oplus k_{79}k_{78}k_{74}k_{21} \oplus k_{75}k_{74}k_{21} \oplus k_{73}k_{21}\oplus$$

$$k_{73}k_{72}k_{21} \oplus k_{79}k_{78}k_{73}k_{72}k_{21} \oplus k_{74}k_{71}k_{21} \oplus k_{72}k_{71}k_{21} \oplus k_{73}k_{72}k_{71}k_{21}\oplus$$

$$k_{69}k_{21} \oplus k_{74}k_{70}k_{69}k_{21} \oplus k_{73}k_{72}k_{70}k_{69}k_{21} \oplus k_{72}k_{68}k_{21} \oplus k_{71}k_{70}k_{68}k_{21}\oplus$$

$$k_{67}k_{21} \oplus k_{74}k_{67}k_{21} \oplus k_{73}k_{72}k_{67}k_{21} \oplus k_{68}k_{67}k_{21} \oplus k_{66}k_{21} \oplus k_{66}k_{65}k_{21}\oplus$$

$$k_{74}k_{66}k_{65}k_{21} \oplus k_{73}k_{72}k_{66}k_{65}k_{21} \oplus k_{65}k_{64}k_{21} \oplus k_{74}k_{61}k_{21} \oplus k_{73}k_{61}k_{21}\oplus$$

$$k_{73}k_{72}k_{61}k_{21} \oplus k_{72}k_{71}k_{61}k_{21} \oplus k_{67}k_{61}k_{21} \oplus k_{66}k_{65}k_{61}k_{21} \oplus k_{60}k_{21}\oplus$$

$$k_{74}k_{60}k_{21} \oplus k_{73}k_{60}k_{21} \oplus k_{72}k_{60}k_{21} \oplus k_{73}k_{72}k_{60}k_{21} \oplus k_{72}k_{71}k_{60}k_{21}\oplus$$

$$k_{71}k_{70}k_{60}k_{21} \oplus k_{74}k_{59}k_{21} \oplus k_{73}k_{72}k_{59}k_{21} \oplus k_{74}k_{60}k_{59}k_{21} \oplus k_{73}k_{60}k_{59}k_{21}\oplus$$

$$k_{73}k_{72}k_{60}k_{59}k_{21} \oplus k_{72}k_{71}k_{60}k_{59}k_{21} \oplus k_{67}k_{60}k_{59}k_{21} \oplus k_{66}k_{65}k_{60}k_{59}k_{21}\oplus$$

$$k_{74}k_{58}k_{21} \oplus k_{73}k_{72}k_{58}k_{21} \oplus k_{72}k_{60}k_{58}k_{21} \oplus k_{71}k_{70}k_{60}k_{58}k_{21} \oplus k_{59}k_{58}k_{21}\oplus$$

$$k_{74}k_{59}k_{58}k_{21} \oplus k_{73}k_{59}k_{58}k_{21} \oplus k_{72}k_{59}k_{58}k_{21} \oplus k_{73}k_{72}k_{59}k_{58}k_{21}\oplus$$

$$k_{72}k_{71}k_{59}k_{58}k_{21} \oplus k_{71}k_{70}k_{59}k_{58}k_{21} \oplus k_{72}k_{57}k_{21} \oplus k_{71}k_{70}k_{57}k_{21}\oplus$$

$$k_{74}k_{58}k_{57}k_{21} \oplus k_{72}k_{58}k_{57}k_{21} \oplus k_{73}k_{72}k_{58}k_{57}k_{21} \oplus k_{71}k_{70}k_{58}k_{57}k_{21}\oplus$$

$$k_{56}k_{21} \oplus k_{57}k_{56}k_{21} \oplus k_{55}k_{21} \oplus k_{56}k_{55}k_{21} \oplus k_{53}k_{21} \oplus k_{74}k_{53}k_{21}\oplus$$

$$k_{73}k_{72}k_{53}k_{21} \oplus k_{79}k_{78}k_{47}k_{21} \oplus k_{71}k_{47}k_{21} \oplus k_{70}k_{69}k_{47}k_{21} \oplus k_{67}k_{47}k_{21}\oplus$$

$$k_{66}k_{65}k_{47}k_{21} \oplus k_{61}k_{47}k_{21} \oplus k_{60}k_{47}k_{21} \oplus k_{59}k_{47}k_{21} \oplus k_{60}k_{59}k_{47}k_{21}\oplus$$

$$k_{58}k_{47}k_{21} \oplus k_{59}k_{58}k_{47}k_{21} \oplus k_{58}k_{57}k_{47}k_{21} \oplus k_{53}k_{47}k_{21} \oplus k_{48}k_{47}k_{21}\oplus$$

$$k_{46}k_{21} \oplus k_{61}k_{46}k_{21} \oplus k_{60}k_{46}k_{21} \oplus k_{60}k_{59}k_{46}k_{21} \oplus k_{59}k_{58}k_{46}k_{21}\oplus$$

$$k_{68}k_{45}k_{21} \oplus k_{60}k_{45}k_{21} \oplus k_{60}k_{58}k_{45}k_{21} \oplus k_{59}k_{58}k_{45}k_{21} \oplus k_{57}k_{45}k_{21}\oplus$$

$$k_{58}k_{57}k_{45}k_{21} \oplus k_{46}k_{45}k_{21} \oplus k_{44}k_{21} \oplus k_{74}k_{44}k_{21} \oplus k_{73}k_{72}k_{44}k_{21}\oplus$$

$$k_{47}k_{44}k_{21} \oplus k_{42}k_{21} \oplus k_{43}k_{42}k_{21} \oplus k_{40}k_{21} \oplus k_{74}k_{40}k_{21} \oplus k_{73}k_{72}k_{40}k_{21}\oplus$$

$$k_{61}k_{40}k_{21} \oplus k_{60}k_{59}k_{40}k_{21} \oplus k_{47}k_{40}k_{21} \oplus k_{39}k_{21} \oplus k_{74}k_{34}k_{21} \oplus k_{73}k_{34}k_{21}\oplus$$

$$k_{73}k_{72}k_{34}k_{21} \oplus k_{72}k_{71}k_{34}k_{21} \oplus k_{67}k_{34}k_{21} \oplus k_{66}k_{65}k_{34}k_{21} \oplus k_{47}k_{34}k_{21}\oplus$$

$$k_{46}k_{34}k_{21} \oplus k_{40}k_{34}k_{21} \oplus k_{33}k_{21} \oplus k_{74}k_{33}k_{21} \oplus k_{73}k_{33}k_{21} \oplus k_{72}k_{33}k_{21}\oplus$$

$$k_{73}k_{72}k_{33}k_{21} \oplus k_{72}k_{71}k_{33}k_{21} \oplus k_{71}k_{70}k_{33}k_{21} \oplus k_{72}k_{58}k_{33}k_{21}\oplus$$

$$k_{71}k_{70}k_{58}k_{33}k_{21} \oplus k_{47}k_{33}k_{21} \oplus k_{46}k_{33}k_{21} \oplus k_{45}k_{33}k_{21} \oplus k_{58}k_{45}k_{33}k_{21}\oplus$$

$$k_{72}k_{32}k_{21} \oplus k_{71}k_{70}k_{32}k_{21} \oplus k_{72}k_{58}k_{32}k_{21} \oplus k_{71}k_{70}k_{58}k_{32}k_{21} \oplus k_{45}k_{32}k_{21}\oplus$$

$$k_{58}k_{45}k_{32}k_{21} \oplus k_{31}k_{21} \oplus k_{22}k_{21} \oplus k_{20} \oplus k_{79}k_{78}k_{76}k_{20} \oplus k_{79}k_{78}k_{77}k_{76}k_{20}\oplus$$

$$k_{79}k_{78}k_{75}k_{74}k_{20} \oplus k_{71}k_{20} \oplus k_{70}k_{69}k_{20} \oplus k_{72}k_{68}k_{20} \oplus k_{71}k_{70}k_{68}k_{20}\oplus$$

$$k_{66}k_{20} \oplus k_{75}k_{64}k_{20} \oplus k_{74}k_{73}k_{64}k_{20} \oplus k_{60}k_{20} \oplus k_{72}k_{60}k_{20} \oplus k_{71}k_{70}k_{60}k_{20}\oplus$$

$$k_{64}k_{60}k_{20} \oplus k_{75}k_{64}k_{60}k_{20} \oplus k_{74}k_{73}k_{64}k_{60}k_{20} \oplus k_{64}k_{59}k_{20} \oplus k_{75}k_{64}k_{59}k_{20}\oplus$$

$$k_{74}k_{73}k_{64}k_{59}k_{20} \oplus k_{58}k_{20} \oplus k_{77}k_{58}k_{20} \oplus k_{76}k_{58}k_{20} \oplus k_{76}k_{74}k_{73}k_{58}k_{20}\oplus$$

$$k_{75}k_{74}k_{73}k_{58}k_{20} \oplus k_{64}k_{58}k_{20} \oplus k_{75}k_{64}k_{58}k_{20} \oplus k_{74}k_{73}k_{64}k_{58}k_{20}\oplus$$

$$k_{60}k_{58}k_{20} \oplus k_{72}k_{60}k_{58}k_{20} \oplus k_{71}k_{70}k_{60}k_{58}k_{20} \oplus k_{64}k_{60}k_{58}k_{20}\oplus$$

$$k_{75}k_{64}k_{60}k_{58}k_{20} \oplus k_{74}k_{73}k_{64}k_{60}k_{58}k_{20} \oplus k_{72}k_{59}k_{58}k_{20} \oplus k_{71}k_{70}k_{59}k_{58}k_{20}\oplus$$

$$k_{64}k_{59}k_{58}k_{20} \oplus k_{75}k_{64}k_{59}k_{58}k_{20} \oplus k_{74}k_{73}k_{64}k_{59}k_{58}k_{20} \oplus k_{78}k_{57}k_{20}\oplus$$

$$k_{77}k_{76}k_{57}k_{20} \oplus k_{72}k_{57}k_{20} \oplus k_{71}k_{70}k_{57}k_{20} \oplus k_{58}k_{57}k_{20} \oplus k_{78}k_{58}k_{57}k_{20}\oplus$$

$$k_{76}k_{58}k_{57}k_{20} \oplus k_{77}k_{76}k_{58}k_{57}k_{20} \oplus k_{75}k_{74}k_{58}k_{57}k_{20} \oplus k_{72}k_{58}k_{57}k_{20}\oplus$$

$$k_{71}k_{70}k_{58}k_{57}k_{20} \oplus k_{56}k_{20} \oplus k_{78}k_{56}k_{20} \oplus k_{77}k_{76}k_{56}k_{20} \oplus k_{64}k_{56}k_{20}\oplus$$

$$k_{57}k_{56}k_{20} \oplus k_{53}k_{20} \oplus k_{78}k_{53}k_{20} \oplus k_{76}k_{53}k_{20} \oplus k_{77}k_{76}k_{53}k_{20}\oplus$$

$$k_{75}k_{74}k_{53}k_{20} \oplus k_{79}k_{78}k_{51}k_{20} \oplus k_{57}k_{51}k_{20} \oplus k_{58}k_{57}k_{51}k_{20} \oplus k_{56}k_{51}k_{20}\oplus$$

$$k_{53}k_{51}k_{20} \oplus k_{58}k_{50}k_{20} \oplus k_{79}k_{78}k_{49}k_{20} \oplus k_{58}k_{49}k_{20} \oplus k_{75}k_{58}k_{49}k_{20}\oplus$$

$$k_{74}k_{73}k_{58}k_{49}k_{20} \oplus k_{58}k_{57}k_{49}k_{20} \oplus k_{53}k_{49}k_{20} \oplus k_{48}k_{20} \oplus k_{64}k_{48}k_{20}\oplus$$

$$k_{64}k_{60}k_{48}k_{20} \oplus k_{64}k_{59}k_{48}k_{20} \oplus k_{76}k_{58}k_{48}k_{20} \oplus k_{75}k_{74}k_{58}k_{48}k_{20}\oplus$$

$$k_{64}k_{58}k_{48}k_{20} \oplus k_{64}k_{60}k_{58}k_{48}k_{20} \oplus k_{64}k_{59}k_{58}k_{48}k_{20} \oplus k_{58}k_{49}k_{48}k_{20}\oplus$$

$$k_{47}k_{46}k_{20} \oplus k_{68}k_{45}k_{20} \oplus k_{60}k_{45}k_{20} \oplus k_{60}k_{58}k_{45}k_{20} \oplus k_{59}k_{58}k_{45}k_{20}\oplus$$

$$k_{57}k_{45}k_{20} \oplus k_{58}k_{57}k_{45}k_{20} \oplus k_{44}k_{20} \oplus k_{33}k_{20} \oplus k_{72}k_{33}k_{20} \oplus k_{71}k_{70}k_{33}k_{20}\oplus$$

$$k_{64}k_{33}k_{20} \oplus k_{75}k_{64}k_{33}k_{20} \oplus k_{74}k_{73}k_{64}k_{33}k_{20} \oplus k_{58}k_{33}k_{20} \oplus k_{72}k_{58}k_{33}k_{20}\oplus$$

$$k_{71}k_{70}k_{58}k_{33}k_{20} \oplus k_{64}k_{58}k_{33}k_{20} \oplus k_{75}k_{64}k_{58}k_{33}k_{20} \oplus k_{74}k_{73}k_{64}k_{58}k_{33}k_{20}\oplus$$

$$k_{64}k_{48}k_{33}k_{20} \oplus k_{64}k_{58}k_{48}k_{33}k_{20} \oplus k_{45}k_{33}k_{20} \oplus k_{58}k_{45}k_{33}k_{20} \oplus k_{32}k_{20}\oplus$$

$$k_{72}k_{32}k_{20} \oplus k_{71}k_{70}k_{32}k_{20} \oplus k_{64}k_{32}k_{20} \oplus k_{75}k_{64}k_{32}k_{20} \oplus k_{74}k_{73}k_{64}k_{32}k_{20}\oplus$$

$$k_{72}k_{58}k_{32}k_{20} \oplus k_{71}k_{70}k_{58}k_{32}k_{20} \oplus k_{64}k_{58}k_{32}k_{20} \oplus k_{75}k_{64}k_{58}k_{32}k_{20}\oplus$$

$$k_{74}k_{73}k_{64}k_{58}k_{32}k_{20} \oplus k_{64}k_{48}k_{32}k_{20} \oplus k_{64}k_{58}k_{48}k_{32}k_{20} \oplus k_{45}k_{32}k_{20} \oplus$$

$$k_{58}k_{45}k_{32}k_{20} \oplus k_{31}k_{20} \oplus k_{21}k_{20} \oplus k_{19} \oplus k_{78}k_{19} \oplus k_{77}k_{76}k_{19} \oplus k_{74}k_{19} \oplus$$

$$k_{73}k_{19} \oplus k_{73}k_{72}k_{19} \oplus k_{71}k_{19} \oplus k_{72}k_{71}k_{19} \oplus k_{70}k_{69}k_{19} \oplus k_{66}k_{19} \oplus$$

$$k_{79}k_{64}k_{19} \oplus k_{78}k_{77}k_{64}k_{19} \oplus k_{75}k_{64}k_{19} \oplus k_{74}k_{73}k_{64}k_{19} \oplus k_{61}k_{19} \oplus$$

$$k_{60}k_{59}k_{19} \oplus k_{58}k_{19} \oplus k_{78}k_{58}k_{19} \oplus k_{77}k_{76}k_{58}k_{19} \oplus k_{74}k_{58}k_{19} \oplus k_{73}k_{58}k_{19} \oplus$$

$$k_{73}k_{72}k_{58}k_{19} \oplus k_{72}k_{71}k_{58}k_{19} \oplus k_{64}k_{58}k_{19} \oplus k_{79}k_{64}k_{58}k_{19} \oplus$$

$$k_{78}k_{77}k_{64}k_{58}k_{19} \oplus k_{75}k_{64}k_{58}k_{19} \oplus k_{74}k_{73}k_{64}k_{58}k_{19} \oplus k_{60}k_{58}k_{19} \oplus$$

$$k_{59}k_{58}k_{19} \oplus k_{57}k_{19} \oplus k_{58}k_{57}k_{19} \oplus k_{56}k_{19} \oplus k_{64}k_{52}k_{19} \oplus k_{64}k_{58}k_{52}k_{19} \oplus$$

$$k_{51}k_{19} \oplus k_{58}k_{51}k_{19} \oplus k_{64}k_{48}k_{19} \oplus k_{64}k_{58}k_{48}k_{19} \oplus k_{47}k_{19} \oplus k_{58}k_{47}k_{19} \oplus$$

$$k_{46}k_{19} \oplus k_{58}k_{46}k_{19} \oplus k_{44}k_{19} \oplus k_{34}k_{19} \oplus k_{58}k_{33}k_{19} \oplus k_{20}k_{19} \oplus k_{67}k_{18} \oplus$$

$$k_{66}k_{18} \oplus k_{65}k_{18} \oplus k_{64}k_{63}k_{18} \oplus k_{66}k_{64}k_{63}k_{18} \oplus k_{65}k_{64}k_{63}k_{18} \oplus k_{52}k_{18} \oplus$$

$$k_{51}k_{50}k_{18} \oplus k_{40}k_{18} \oplus k_{39}k_{18} \oplus k_{65}k_{39}k_{18} \oplus k_{64}k_{63}k_{39}k_{18} \oplus k_{38}k_{18} \oplus$$

$$k_{66}k_{38}k_{18} \oplus k_{65}k_{64}k_{38}k_{18} \oplus k_{39}k_{38}k_{18} \oplus k_{31}k_{18} \oplus k_{25}k_{18} \oplus k_{19}k_{18} \oplus k_{17} \oplus$$

$$k_{73}k_{17} \oplus k_{72}k_{71}k_{17} \oplus k_{60}k_{17} \oplus k_{69}k_{60}k_{17} \oplus k_{68}k_{67}k_{60}k_{17} \oplus k_{57}k_{17} \oplus$$

$$k_{56}k_{17} \oplus k_{55}k_{17} \oplus k_{54}k_{17} \oplus k_{46}k_{17} \oplus k_{60}k_{42}k_{17} \oplus k_{60}k_{22}k_{17} \oplus k_{21}k_{17} \oplus$$

$$k_{16} \oplus k_{78}k_{16} \oplus k_{76}k_{16} \oplus k_{77}k_{76}k_{16} \oplus k_{75}k_{74}k_{16} \oplus k_{76}k_{72}k_{16} \oplus$$

$$k_{75}k_{74}k_{72}k_{16} \oplus k_{70}k_{16} \oplus k_{76}k_{71}k_{70}k_{16} \oplus k_{75}k_{74}k_{71}k_{70}k_{16} \oplus k_{69}k_{68}k_{16} \oplus$$

$$k_{60}k_{16} \oplus k_{70}k_{60}k_{16} \oplus k_{69}k_{68}k_{60}k_{16} \oplus k_{57}k_{16} \oplus k_{55}k_{16} \oplus k_{60}k_{55}k_{16} \oplus$$

$$k_{60}k_{54}k_{53}k_{16} \oplus k_{49}k_{16} \oplus k_{72}k_{49}k_{16} \oplus k_{71}k_{70}k_{49}k_{16} \oplus k_{50}k_{49}k_{16} \oplus$$

$$k_{76}k_{45}k_{16} \oplus k_{75}k_{74}k_{45}k_{16} \oplus k_{49}k_{45}k_{16} \oplus k_{43}k_{16} \oplus k_{60}k_{43}k_{16} \oplus k_{42}k_{16} \oplus$$

$$k_{41}k_{40}k_{16} \oplus k_{60}k_{28}k_{16} \oplus k_{25}k_{16} \oplus k_{24}k_{16} \oplus k_{23}k_{16} \oplus k_{22}k_{16} \oplus k_{17}k_{16} \oplus$$

$$k_{57}k_{15} \oplus k_{60}k_{57}k_{15} \oplus k_{76}k_{56}k_{15} \oplus k_{75}k_{74}k_{56}k_{15} \oplus k_{60}k_{56}k_{55}k_{15} \oplus$$

$$k_{55}k_{54}k_{15} \oplus k_{52}k_{15} \oplus k_{51}k_{50}k_{15} \oplus k_{56}k_{49}k_{15} \oplus k_{47}k_{15} \oplus k_{46}k_{45}k_{15} \oplus$$

$$k_{43}k_{15} \oplus k_{42}k_{41}k_{15} \oplus k_{60}k_{30}k_{15} \oplus k_{29}k_{15} \oplus k_{23}k_{15} \oplus k_{20}k_{15} \oplus k_{16}k_{15} \oplus$$

$$k_{14} \oplus k_{79}k_{78}k_{14} \oplus k_{68}k_{14} \oplus k_{70}k_{66}k_{14} \oplus k_{69}k_{68}k_{66}k_{14} \oplus k_{67}k_{66}k_{14} \oplus$$

$$k_{60}k_{14} \oplus k_{79}k_{78}k_{56}k_{14} \oplus k_{73}k_{56}k_{14} \oplus k_{72}k_{71}k_{56}k_{14} \oplus k_{68}k_{56}k_{14} \oplus$$

$$k_{67}k_{66}k_{56}k_{14} \oplus k_{60}k_{56}k_{14} \oplus k_{73}k_{55}k_{14} \oplus k_{72}k_{71}k_{55}k_{14} \oplus k_{69}k_{55}k_{14} \oplus$$

$$k_{68}k_{67}k_{55}k_{14} \oplus k_{57}k_{55}k_{14} \oplus k_{56}k_{55}k_{14} \oplus k_{54}k_{14} \oplus k_{69}k_{54}k_{14} \oplus$$

$$k_{68}k_{67}k_{54}k_{14} \oplus k_{57}k_{54}k_{14} \oplus k_{56}k_{54}k_{14} \oplus k_{53}k_{14} \oplus k_{56}k_{53}k_{14} \oplus k_{56}k_{46}k_{14} \oplus$$

$$k_{55}k_{46}k_{14} \oplus k_{66}k_{43}k_{14} \oplus k_{55}k_{42}k_{14} \oplus k_{54}k_{42}k_{14} \oplus k_{41}k_{14} \oplus k_{56}k_{41}k_{14} \oplus$$

$$k_{25}k_{14} \oplus k_{69}k_{25}k_{14} \oplus k_{68}k_{67}k_{25}k_{14} \oplus k_{57}k_{25}k_{14} \oplus k_{56}k_{25}k_{14} \oplus k_{42}k_{25}k_{14} \oplus$$

$$k_{56}k_{24}k_{14} \oplus k_{57}k_{15}k_{14} \oplus k_{73}k_{69}k_{13} \oplus k_{72}k_{71}k_{69}k_{13} \oplus k_{73}k_{68}k_{67}k_{13} \oplus$$

$$k_{72}k_{71}k_{68}k_{67}k_{13} \oplus k_{73}k_{57}k_{13} \oplus k_{72}k_{71}k_{57}k_{13} \oplus k_{73}k_{56}k_{13} \oplus k_{72}k_{71}k_{56}k_{13} \oplus$$

$$k_{73}k_{55}k_{13} \oplus k_{72}k_{71}k_{55}k_{13} \oplus k_{73}k_{56}k_{55}k_{13} \oplus k_{72}k_{71}k_{56}k_{55}k_{13} \oplus k_{69}k_{46}k_{13} \oplus$$

$$k_{68}k_{67}k_{46}k_{13} \oplus k_{57}k_{46}k_{13} \oplus k_{56}k_{46}k_{13} \oplus k_{55}k_{46}k_{13} \oplus k_{56}k_{55}k_{46}k_{13} \oplus$$

$$k_{44}k_{13} \oplus k_{43}k_{13} \oplus k_{73}k_{42}k_{13} \oplus k_{72}k_{71}k_{42}k_{13} \oplus k_{46}k_{42}k_{13} \oplus k_{43}k_{42}k_{13} \oplus$$

$$k_{42}k_{41}k_{13} \oplus k_{17}k_{13} \oplus k_{16}k_{13} \oplus k_{57}k_{14}k_{13} \oplus k_{60}k_{57}k_{12} \oplus k_{60}k_{55}k_{12} \oplus$$

$$k_{13}k_{12} \oplus k_{70}k_{13}k_{12} \oplus k_{68}k_{13}k_{12} \oplus k_{69}k_{68}k_{13}k_{12} \oplus k_{70}k_{66}k_{13}k_{12} \oplus$$

$$k_{69}k_{68}k_{66}k_{13}k_{12} \oplus k_{67}k_{66}k_{13}k_{12} \oplus k_{60}k_{13}k_{12} \oplus k_{56}k_{13}k_{12} \oplus k_{68}k_{56}k_{13}k_{12} \oplus$$

$$k_{67}k_{66}k_{56}k_{13}k_{12} \oplus k_{60}k_{56}k_{13}k_{12} \oplus k_{55}k_{13}k_{12} \oplus k_{69}k_{55}k_{13}k_{12} \oplus$$

$$k_{68}k_{67}k_{55}k_{13}k_{12} \oplus k_{57}k_{55}k_{13}k_{12} \oplus k_{56}k_{55}k_{13}k_{12} \oplus k_{54}k_{13}k_{12} \oplus$$

$$k_{69}k_{54}k_{13}k_{12} \oplus k_{68}k_{67}k_{54}k_{13}k_{12} \oplus k_{57}k_{54}k_{13}k_{12} \oplus k_{56}k_{54}k_{13}k_{12} \oplus$$

$$k_{43}k_{13}k_{12} \oplus k_{66}k_{43}k_{13}k_{12} \oplus k_{55}k_{42}k_{13}k_{12} \oplus k_{54}k_{42}k_{13}k_{12} \oplus k_{41}k_{13}k_{12} \oplus$$

$$k_{56}k_{41}k_{13}k_{12} \oplus k_{25}k_{13}k_{12} \oplus k_{69}k_{25}k_{13}k_{12} \oplus k_{68}k_{67}k_{25}k_{13}k_{12} \oplus$$

$$k_{57}k_{25}k_{13}k_{12} \oplus k_{56}k_{25}k_{13}k_{12} \oplus k_{42}k_{25}k_{13}k_{12} \oplus k_{56}k_{24}k_{13}k_{12} \oplus k_{79}k_{78}k_{11} \oplus$$

$$k_{70}k_{11} \oplus k_{68}k_{11} \oplus k_{69}k_{68}k_{11} \oplus k_{64}k_{11} \oplus k_{79}k_{78}k_{62}k_{11} \oplus k_{68}k_{62}k_{11} \oplus$$

$$k_{64}k_{62}k_{11} \oplus k_{60}k_{11} \oplus k_{69}k_{60}k_{11} \oplus k_{68}k_{67}k_{60}k_{11} \oplus k_{79}k_{78}k_{61}k_{60}k_{11} \oplus$$

$$k_{68}k_{61}k_{60}k_{11} \oplus k_{64}k_{61}k_{60}k_{11} \oplus k_{60}k_{57}k_{11} \oplus k_{53}k_{11} \oplus k_{62}k_{53}k_{11} \oplus$$

$$k_{61}k_{60}k_{53}k_{11} \oplus k_{43}k_{11} \oplus k_{60}k_{42}k_{11} \oplus k_{79}k_{78}k_{35}k_{11} \oplus k_{68}k_{35}k_{11} \oplus$$

$$k_{64}k_{35}k_{11} \oplus k_{53}k_{35}k_{11} \oplus k_{44}k_{12}k_{11} \oplus k_{43}k_{12}k_{11} \oplus k_{43}k_{42}k_{12}k_{11} \oplus$$

$$k_{42}k_{41}k_{12}k_{11} \oplus k_{17}k_{12}k_{11} \oplus k_{16}k_{12}k_{11} \oplus k_{10} \oplus k_{69}k_{10} \oplus k_{68}k_{67}k_{10} \oplus$$

$$k_{42}k_{10} \oplus k_{77}k_9 \oplus k_{76}k_{75}k_9 \oplus k_{72}k_9 \oplus k_{70}k_9 \oplus k_{71}k_{70}k_9 \oplus k_{69}k_9 \oplus$$

$$k_{69}k_{68}k_9 \oplus k_{67}k_9 \oplus k_{68}k_{67}k_9 \oplus k_{66}k_9 \oplus k_{65}k_9 \oplus k_{66}k_{65}k_9 \oplus k_{67}k_{64}k_9 \oplus$$

$$k_{66}k_{65}k_{64}k_9 \oplus k_{74}k_{62}k_9 \oplus k_{73}k_{72}k_{62}k_9 \oplus k_{75}k_{60}k_9 \oplus k_{74}k_{73}k_{60}k_9 \oplus$$

$$k_{64}k_{60}k_9 \oplus k_{62}k_{60}k_9 \oplus k_{57}k_9 \oplus k_{60}k_{56}k_9 \oplus k_{60}k_{57}k_{56}k_9 \oplus k_{60}k_{55}k_9 \oplus$$

$$k_{54}k_9 \oplus k_{66}k_{54}k_9 \oplus k_{60}k_{55}k_{54}k_9 \oplus k_{60}k_{57}k_{55}k_{54}k_9 \oplus k_{50}k_9 \oplus k_{60}k_{48}k_9 \oplus$$

$$k_{62}k_{47}k_9 \oplus k_{43}k_9 \oplus k_{42}k_9 \oplus k_{40}k_9 \oplus k_{64}k_{40}k_9 \oplus k_{60}k_{39}k_9 \oplus k_{60}k_{38}k_{37}k_9 \oplus$$

$$k_{60}k_{29}k_9 \oplus k_{60}k_{57}k_{29}k_9 \oplus k_{60}k_{25}k_9 \oplus k_{24}k_9 \oplus k_{22}k_9 \oplus k_{60}k_{12}k_9 \oplus k_8 \oplus$$

$$k_{74}k_8 \oplus k_{73}k_{72}k_8 \oplus k_{60}k_8 \oplus k_{47}k_8 \oplus k_7 \oplus k_{78}k_7 \oplus k_{79}k_{78}k_7 \oplus k_{77}k_7 \oplus$$

$$k_{76}k_7 \oplus k_{75}k_{74}k_7 \oplus k_{77}k_{75}k_{74}k_7 \oplus k_{76}k_{75}k_{74}k_7 \oplus k_{73}k_7 \oplus k_{72}k_7 \oplus$$

$$k_{73}k_{72}k_7 \oplus k_{71}k_7 \oplus k_{72}k_{71}k_7 \oplus k_{70}k_7 \oplus k_{73}k_{71}k_{70}k_7 \oplus k_{72}k_{71}k_{70}k_7 \oplus$$

$$k_{69}k_7 \oplus k_{70}k_{69}k_7 \oplus k_{72}k_{70}k_{69}k_7 \oplus k_{71}k_{70}k_{69}k_7 \oplus k_{69}k_{68}k_7 \oplus k_{68}k_{67}k_7 \oplus$$

$$k_{63}k_7 \oplus k_{62}k_7 \oplus k_{62}k_{61}k_7 \oplus k_{60}k_7 \oplus k_{75}k_{60}k_7 \oplus k_{74}k_{73}k_{60}k_7 \oplus k_{59}k_7 \oplus$$

$$k_{58}k_7 \oplus k_{64}k_{57}k_7 \oplus k_{58}k_{57}k_7 \oplus k_{56}k_7 \oplus k_{74}k_{56}k_7 \oplus k_{73}k_{56}k_7 \oplus$$

$$k_{73}k_{71}k_{70}k_{56}k_7 \oplus k_{72}k_{71}k_{70}k_{56}k_7 \oplus k_{59}k_{56}k_7 \oplus k_{57}k_{56}k_7 \oplus k_{58}k_{57}k_{56}k_7 \oplus$$

$$k_{55}k_7 \oplus k_{56}k_{55}k_7 \oplus k_{54}k_7 \oplus k_{53}k_7 \oplus k_{51}k_7 \oplus k_{50}k_7 \oplus k_{76}k_{50}k_7 \oplus$$

$$k_{75}k_{74}k_{50}k_7 \oplus k_{49}k_7 \oplus k_{77}k_{49}k_7 \oplus k_{76}k_{75}k_{49}k_7 \oplus k_{50}k_{49}k_7 \oplus k_{60}k_{48}k_7 \oplus$$

$$k_{56}k_{47}k_7 \oplus k_{46}k_7 \oplus k_{72}k_{46}k_7 \oplus k_{71}k_{70}k_{46}k_7 \oplus k_{56}k_{46}k_7 \oplus k_{72}k_{56}k_{46}k_7 \oplus$$

$$k_{71}k_{70}k_{56}k_{46}k_7 \oplus k_{45}k_7 \oplus k_{73}k_{45}k_7 \oplus k_{71}k_{45}k_7 \oplus k_{72}k_{71}k_{45}k_7 \oplus$$

$$k_{70}k_{69}k_{45}k_7 \oplus k_{73}k_{56}k_{45}k_7 \oplus k_{72}k_{71}k_{56}k_{45}k_7 \oplus k_{46}k_{45}k_7 \oplus k_{56}k_{46}k_{45}k_7 \oplus$$

$$k_{44}k_7 \oplus k_{72}k_{44}k_7 \oplus k_{71}k_{70}k_{44}k_7 \oplus k_{45}k_{44}k_7 \oplus k_{43}k_7 \oplus k_{36}k_7 \oplus k_{32}k_7 \oplus$$

$$k_{56}k_{32}k_7 \oplus k_{31}k_7 \oplus k_{13}k_7 \oplus k_6 \oplus k_{74}k_6 \oplus k_{73}k_{72}k_6 \oplus k_{64}k_6 \oplus k_{58}k_6 \oplus$$

$k_{57}k_6 \oplus k_{47}k_6 \oplus k_5 \oplus k_{57}k_5 \oplus k_{74}k_4 \oplus k_{73}k_{72}k_4 \oplus k_{71}k_4 \oplus k_{70}k_{69}k_4 \oplus$
$k_{68}k_4 \oplus k_{62}k_4 \oplus k_{59}k_4 \oplus k_{58}k_4 \oplus k_{57}k_4 \oplus k_{58}k_{57}k_4 \oplus k_{47}k_4 \oplus k_{44}k_4 \oplus$
$k_{57}k_{30}k_4 \oplus k_{57}k_{29}k_{28}k_4 \oplus k_{57}k_5k_4 \oplus k_3 \oplus k_{78}k_3 \oplus k_{76}k_3 \oplus k_{77}k_{76}k_3 \oplus$
$k_{75}k_{74}k_3 \oplus k_{71}k_3 \oplus k_{69}k_3 \oplus k_{70}k_{69}k_3 \oplus k_{68}k_{67}k_3 \oplus k_{78}k_{58}k_3 \oplus$
$k_{77}k_{76}k_{58}k_3 \oplus k_{57}k_3 \oplus k_{72}k_{57}k_3 \oplus k_{71}k_{70}k_{57}k_3 \oplus k_{56}k_3 \oplus k_{55}k_3 \oplus$
$k_{76}k_{55}k_3 \oplus k_{75}k_{74}k_{55}k_3 \oplus k_{56}k_{55}k_3 \oplus k_{51}k_3 \oplus k_{58}k_{51}k_3 \oplus k_{49}k_3 \oplus$
$k_{55}k_{49}k_3 \oplus k_{57}k_{45}k_3 \oplus k_{44}k_3 \oplus k_{42}k_3 \oplus k_{57}k_{29}k_3 \oplus k_{57}k_{28}k_{27}k_3 \oplus$
$k_{57}k_4k_3 \oplus k_{57}k_2 \oplus k_{56}k_2 \oplus k_{57}k_{30}k_2 \oplus k_{57}k_{29}k_{28}k_2 \oplus k_{57}k_3k_2 \oplus k_1 \oplus {\color{red}k_0}$

4 Superpoly $p_{I_{10}}$

Taking the cube of dimension 77 as

$$I_{10} = \{0, 1, \ldots, 72, 73, 75, 77, 79\}, \quad IV[74] = IV[76] = IV[78] = 0,$$

we recover the superpoly $p_{I_{10}}$ for 842-Round TRIVIUM that has 4174 terms, and we give it as follows

$p_{I_{10}} = k_{77}k_{78} \oplus k_{76} \oplus k_{76}k_{77} \oplus k_{76}k_{77}k_{79} \oplus k_{76}k_{77}k_{78} \oplus k_{75}k_{79} \oplus k_{75}k_{78} \oplus$
$\quad k_{75}k_{77} \oplus k_{75}k_{77}k_{78} \oplus k_{75}k_{76}k_{77} \oplus k_{74} \oplus k_{74}k_{79} \oplus k_{74}k_{76} \oplus k_{74}k_{76}k_{77}k_{79} \oplus$
$\quad k_{74}k_{76}k_{77}k_{78} \oplus k_{74}k_{75} \oplus k_{74}k_{75}k_{78}k_{79} \oplus k_{74}k_{75}k_{77} \oplus k_{73} \oplus k_{73}k_{78} \oplus$
$\quad k_{73}k_{78}k_{79} \oplus k_{73}k_{76}k_{77} \oplus k_{73}k_{75}k_{78}k_{79} \oplus k_{73}k_{74}k_{79} \oplus k_{73}k_{74}k_{78} \oplus$
$\quad k_{73}k_{74}k_{77} \oplus k_{73}k_{74}k_{77}k_{78} \oplus k_{73}k_{74}k_{76} \oplus k_{73}k_{74}k_{76}k_{77} \oplus k_{73}k_{74}k_{75} \oplus$
$\quad k_{73}k_{74}k_{75}k_{76} \oplus k_{72}k_{78}k_{79} \oplus k_{72}k_{77} \oplus k_{72}k_{76} \oplus k_{72}k_{76}k_{78}k_{79} \oplus k_{72}k_{76}k_{77} \oplus$
$\quad k_{72}k_{75} \oplus k_{72}k_{75}k_{78}k_{79} \oplus k_{72}k_{74} \oplus k_{72}k_{74}k_{78}k_{79} \oplus k_{72}k_{74}k_{75} \oplus$
$\quad k_{72}k_{74}k_{75}k_{77} \oplus k_{72}k_{74}k_{75}k_{76} \oplus k_{72}k_{73} \oplus k_{72}k_{73}k_{79} \oplus k_{72}k_{73}k_{78}k_{79} \oplus$
$\quad k_{72}k_{73}k_{76} \oplus k_{72}k_{73}k_{76}k_{77}k_{79} \oplus k_{72}k_{73}k_{76}k_{77}k_{78} \oplus k_{72}k_{73}k_{75}k_{78}k_{79} \oplus$
$\quad k_{72}k_{73}k_{75}k_{76} \oplus k_{72}k_{73}k_{74} \oplus k_{72}k_{73}k_{74}k_{78}k_{79} \oplus k_{72}k_{73}k_{74}k_{76} \oplus$
$\quad k_{72}k_{73}k_{74}k_{75} \oplus k_{71} \oplus k_{71}k_{74} \oplus k_{71}k_{73} \oplus k_{71}k_{72} \oplus k_{71}k_{72}k_{78} \oplus$
$\quad k_{71}k_{72}k_{78}k_{79} \oplus k_{71}k_{72}k_{76}k_{77} \oplus k_{71}k_{72}k_{75} \oplus k_{71}k_{72}k_{73} \oplus k_{71}k_{72}k_{73}k_{74} \oplus$
$\quad k_{70} \oplus k_{70}k_{74} \oplus k_{70}k_{72}k_{73} \oplus k_{70}k_{71}k_{78}k_{79} \oplus k_{70}k_{71}k_{77} \oplus k_{70}k_{71}k_{76} \oplus$
$\quad k_{70}k_{71}k_{76}k_{78}k_{79} \oplus k_{70}k_{71}k_{76}k_{77} \oplus k_{70}k_{71}k_{75}k_{78}k_{79} \oplus k_{70}k_{71}k_{74} \oplus$
$\quad k_{70}k_{71}k_{74}k_{78}k_{79} \oplus k_{70}k_{71}k_{74}k_{75} \oplus k_{70}k_{71}k_{74}k_{75}k_{77} \oplus k_{70}k_{71}k_{74}k_{75}k_{76} \oplus$
$\quad k_{70}k_{71}k_{73} \oplus k_{70}k_{71}k_{73}k_{75}k_{78}k_{79} \oplus k_{70}k_{71}k_{73}k_{74}k_{78}k_{79} \oplus k_{70}k_{71}k_{72} \oplus$
$\quad k_{70}k_{71}k_{72}k_{75}k_{78}k_{79} \oplus k_{70}k_{71}k_{72}k_{73} \oplus k_{70}k_{71}k_{72}k_{73}k_{78}k_{79} \oplus$
$\quad k_{70}k_{71}k_{72}k_{73}k_{75}k_{78}k_{79} \oplus k_{69} \oplus k_{69}k_{75} \oplus k_{69}k_{73} \oplus k_{69}k_{73}k_{74} \oplus k_{69}k_{71}k_{72} \oplus$
$\quad k_{69}k_{70} \oplus k_{69}k_{70}k_{74} \oplus k_{69}k_{70}k_{73} \oplus k_{69}k_{70}k_{72}k_{75} \oplus k_{69}k_{70}k_{72}k_{73} \oplus$
$\quad k_{69}k_{70}k_{72}k_{73}k_{74} \oplus k_{69}k_{70}k_{71}k_{75} \oplus k_{69}k_{70}k_{71}k_{73}k_{74} \oplus k_{69}k_{70}k_{71}k_{72} \oplus k_{68} \oplus$
$\quad k_{68}k_{74}k_{79} \oplus k_{68}k_{74}k_{77}k_{78} \oplus k_{68}k_{72}k_{73}k_{79} \oplus k_{68}k_{72}k_{73}k_{77}k_{78} \oplus k_{68}k_{69} \oplus$

$$k_{68}k_{69}k_{74} \oplus k_{68}k_{69}k_{72}k_{73} \oplus k_{67}k_{79} \oplus k_{67}k_{77}k_{78} \oplus k_{67}k_{68} \oplus k_{67}k_{68}k_{75} \oplus$$
$$k_{67}k_{68}k_{73} \oplus k_{67}k_{68}k_{73}k_{74} \oplus k_{67}k_{68}k_{71}k_{72} \oplus k_{66} \oplus k_{66}k_{78} \oplus k_{66}k_{77} \oplus$$
$$k_{66}k_{76}k_{77} \oplus k_{66}k_{75} \oplus k_{66}k_{75}k_{76} \oplus k_{66}k_{74} \oplus k_{66}k_{73}k_{74} \oplus k_{66}k_{72}k_{73} \oplus$$
$$k_{66}k_{67} \oplus k_{65}k_{79} \oplus k_{65}k_{78}k_{79} \oplus k_{65}k_{77}k_{78} \oplus k_{65}k_{74} \oplus k_{65}k_{72}k_{73} \oplus k_{64}k_{77} \oplus$$
$$k_{64}k_{76} \oplus k_{64}k_{75} \oplus k_{64}k_{75}k_{76} \oplus k_{64}k_{74}k_{75} \oplus k_{64}k_{73}k_{74} \oplus k_{64}k_{72} \oplus$$
$$k_{64}k_{72}k_{73} \oplus k_{64}k_{71}k_{73} \oplus k_{64}k_{70}k_{71} \oplus k_{64}k_{70}k_{71}k_{73} \oplus k_{64}k_{70}k_{71}k_{72} \oplus$$
$$k_{64}k_{69}k_{74} \oplus k_{64}k_{69}k_{71}k_{72} \oplus k_{64}k_{69}k_{70}k_{73} \oplus k_{64}k_{69}k_{70}k_{71}k_{73} \oplus k_{64}k_{67} \oplus$$
$$k_{64}k_{67}k_{68}k_{74} \oplus k_{64}k_{67}k_{68}k_{71}k_{72} \oplus k_{64}k_{67}k_{68}k_{70}k_{71}k_{73} \oplus$$
$$k_{64}k_{67}k_{68}k_{70}k_{71}k_{72} \oplus k_{64}k_{65} \oplus k_{64}k_{65}k_{78} \oplus k_{64}k_{65}k_{77} \oplus k_{64}k_{65}k_{76}k_{77} \oplus$$
$$k_{64}k_{65}k_{75}k_{76} \oplus k_{63} \oplus k_{63}k_{78} \oplus k_{63}k_{76}k_{77} \oplus k_{63}k_{74} \oplus k_{63}k_{72} \oplus k_{63}k_{72}k_{73} \oplus$$
$$k_{63}k_{70}k_{71} \oplus k_{63}k_{69} \oplus k_{63}k_{68} \oplus k_{63}k_{67}k_{68} \oplus k_{63}k_{66} \oplus k_{63}k_{64} \oplus k_{63}k_{64}k_{79} \oplus$$
$$k_{63}k_{64}k_{78}k_{79} \oplus k_{63}k_{64}k_{77}k_{78} \oplus k_{63}k_{64}k_{74} \oplus k_{63}k_{64}k_{72}k_{73} \oplus k_{63}k_{64}k_{66}k_{79} \oplus$$
$$k_{63}k_{64}k_{66}k_{77}k_{78} \oplus k_{63}k_{64}k_{66}k_{74} \oplus k_{63}k_{64}k_{66}k_{72}k_{73} \oplus k_{63}k_{64}k_{65}k_{79} \oplus$$
$$k_{63}k_{64}k_{65}k_{77}k_{78} \oplus k_{63}k_{64}k_{65}k_{74} \oplus k_{63}k_{64}k_{65}k_{72}k_{73} \oplus k_{62} \oplus k_{62}k_{79} \oplus$$
$$k_{62}k_{78} \oplus k_{62}k_{77}k_{78} \oplus k_{62}k_{76} \oplus k_{62}k_{76}k_{77} \oplus k_{62}k_{75} \oplus k_{62}k_{74}k_{75} \oplus k_{62}k_{73} \oplus$$
$$k_{62}k_{73}k_{74} \oplus k_{62}k_{71}k_{72} \oplus k_{62}k_{69} \oplus k_{62}k_{67}k_{68} \oplus k_{62}k_{66} \oplus k_{62}k_{64} \oplus k_{61} \oplus$$
$$k_{61}k_{76} \oplus k_{61}k_{76}k_{77} \oplus k_{61}k_{75} \oplus k_{61}k_{74} \oplus k_{61}k_{74}k_{78} \oplus k_{61}k_{74}k_{76}k_{77} \oplus$$
$$k_{61}k_{74}k_{75}k_{77} \oplus k_{61}k_{74}k_{75}k_{76} \oplus k_{61}k_{73}k_{78} \oplus k_{61}k_{73}k_{77} \oplus k_{61}k_{73}k_{76} \oplus$$
$$k_{61}k_{73}k_{74} \oplus k_{61}k_{73}k_{74}k_{76} \oplus k_{61}k_{73}k_{74}k_{75}k_{77} \oplus k_{61}k_{73}k_{74}k_{75}k_{76} \oplus$$
$$k_{61}k_{72}k_{78}k_{79} \oplus k_{61}k_{72}k_{73} \oplus k_{61}k_{72}k_{73}k_{78} \oplus k_{61}k_{72}k_{73}k_{76}k_{77} \oplus k_{61}k_{71} \oplus$$
$$k_{61}k_{71}k_{72}k_{78} \oplus k_{61}k_{71}k_{72}k_{77} \oplus k_{61}k_{71}k_{72}k_{76} \oplus k_{61}k_{71}k_{72}k_{74}k_{75} \oplus$$
$$k_{61}k_{71}k_{72}k_{74}k_{75}k_{77} \oplus k_{61}k_{71}k_{72}k_{74}k_{75}k_{76} \oplus k_{61}k_{70}k_{71}k_{78}k_{79} \oplus k_{61}k_{69} \oplus$$
$$k_{61}k_{69}k_{70} \oplus k_{61}k_{68} \oplus k_{61}k_{67}k_{68} \oplus k_{61}k_{66}k_{67} \oplus k_{61}k_{64} \oplus k_{61}k_{64}k_{73} \oplus$$
$$k_{61}k_{64}k_{72} \oplus k_{61}k_{64}k_{72}k_{73} \oplus k_{61}k_{64}k_{71}k_{73} \oplus k_{61}k_{64}k_{71}k_{72} \oplus k_{61}k_{64}k_{70}k_{71} \oplus$$
$$k_{61}k_{64}k_{70}k_{71}k_{73} \oplus k_{61}k_{64}k_{70}k_{71}k_{72} \oplus k_{61}k_{64}k_{69} \oplus k_{61}k_{64}k_{69}k_{74} \oplus$$
$$k_{61}k_{64}k_{69}k_{73} \oplus k_{61}k_{64}k_{69}k_{72} \oplus k_{61}k_{64}k_{69}k_{70}k_{73} \oplus k_{61}k_{64}k_{69}k_{70}k_{71} \oplus$$
$$k_{61}k_{64}k_{69}k_{70}k_{71}k_{73} \oplus k_{61}k_{64}k_{67}k_{68} \oplus k_{61}k_{64}k_{67}k_{68}k_{74} \oplus$$
$$k_{61}k_{64}k_{67}k_{68}k_{73} \oplus k_{61}k_{64}k_{67}k_{68}k_{72} \oplus k_{61}k_{64}k_{67}k_{68}k_{70}k_{71} \oplus$$
$$k_{61}k_{64}k_{67}k_{68}k_{70}k_{71}k_{73} \oplus k_{61}k_{64}k_{67}k_{68}k_{70}k_{71}k_{72} \oplus k_{61}k_{63} \oplus k_{61}k_{63}k_{73} \oplus$$
$$k_{61}k_{63}k_{71}k_{72} \oplus k_{61}k_{62} \oplus k_{61}k_{62}k_{78} \oplus k_{61}k_{62}k_{76}k_{77} \oplus k_{61}k_{62}k_{74} \oplus$$
$$k_{61}k_{62}k_{73} \oplus k_{61}k_{62}k_{72} \oplus k_{61}k_{62}k_{72}k_{73} \oplus k_{61}k_{62}k_{71}k_{72} \oplus k_{61}k_{62}k_{70}k_{71} \oplus$$
$$k_{61}k_{62}k_{68} \oplus k_{61}k_{62}k_{64}k_{66} \oplus k_{61}k_{62}k_{64}k_{65} \oplus k_{60} \oplus k_{60}k_{78} \oplus k_{60}k_{77} \oplus$$
$$k_{60}k_{76} \oplus k_{60}k_{76}k_{77} \oplus k_{60}k_{75} \oplus k_{60}k_{75}k_{76} \oplus k_{60}k_{74}k_{78} \oplus k_{60}k_{74}k_{76}k_{77} \oplus$$
$$k_{60}k_{74}k_{75} \oplus k_{60}k_{73} \oplus k_{60}k_{73}k_{74} \oplus k_{60}k_{72} \oplus k_{60}k_{72}k_{73}k_{78} \oplus$$
$$k_{60}k_{72}k_{73}k_{76}k_{77} \oplus k_{60}k_{71} \oplus k_{60}k_{71}k_{73} \oplus k_{60}k_{70}k_{71} \oplus k_{60}k_{69} \oplus k_{60}k_{69}k_{72} \oplus$$
$$k_{60}k_{69}k_{70} \oplus k_{60}k_{69}k_{70}k_{73} \oplus k_{60}k_{69}k_{70}k_{71} \oplus k_{60}k_{69}k_{70}k_{71}k_{72} \oplus k_{60}k_{67} \oplus$$

$$k_{60}k_{67}k_{68} \oplus k_{60}k_{67}k_{68}k_{72} \oplus k_{60}k_{67}k_{68}k_{70}k_{71} \oplus k_{60}k_{66} \oplus k_{60}k_{66}k_{76}\oplus$$

$$k_{60}k_{66}k_{74} \oplus k_{60}k_{66}k_{74}k_{75} \oplus k_{60}k_{66}k_{72}k_{73} \oplus k_{60}k_{64} \oplus k_{60}k_{64}k_{72}\oplus$$

$$k_{60}k_{64}k_{71} \oplus k_{60}k_{64}k_{71}k_{73} \oplus k_{60}k_{64}k_{71}k_{72} \oplus k_{60}k_{64}k_{70}k_{71} \oplus k_{60}k_{64}k_{69}\oplus$$

$$k_{60}k_{64}k_{69}k_{72} \oplus k_{60}k_{64}k_{69}k_{70} \oplus k_{60}k_{64}k_{69}k_{70}k_{73} \oplus k_{60}k_{64}k_{69}k_{70}k_{71}\oplus$$

$$k_{60}k_{64}k_{69}k_{70}k_{71}k_{72} \oplus k_{60}k_{64}k_{67}k_{68} \oplus k_{60}k_{64}k_{67}k_{68}k_{72}\oplus$$

$$k_{60}k_{64}k_{67}k_{68}k_{70}k_{71} \oplus k_{60}k_{64}k_{65}k_{76} \oplus k_{60}k_{64}k_{65}k_{74} \oplus k_{60}k_{64}k_{65}k_{74}k_{75}\oplus$$

$$k_{60}k_{64}k_{65}k_{72}k_{73} \oplus k_{60}k_{63}k_{64}k_{66} \oplus k_{60}k_{63}k_{64}k_{65} \oplus k_{60}k_{62} \oplus k_{60}k_{61}k_{76}\oplus$$

$$k_{60}k_{61}k_{75} \oplus k_{60}k_{61}k_{74}k_{75} \oplus k_{60}k_{61}k_{73}k_{74} \oplus k_{60}k_{61}k_{64} \oplus k_{59}k_{76} \oplus k_{59}k_{75}\oplus$$

$$k_{59}k_{75}k_{78}k_{79} \oplus k_{59}k_{74} \oplus k_{59}k_{74}k_{75} \oplus k_{59}k_{73}k_{74} \oplus k_{59}k_{73}k_{74}k_{78}k_{79}\oplus$$

$$k_{59}k_{72}k_{73} \oplus k_{59}k_{71} \oplus k_{59}k_{71}k_{72} \oplus k_{59}k_{70}k_{71} \oplus k_{59}k_{69}k_{70} \oplus k_{59}k_{69}k_{70}k_{72}\oplus$$

$$k_{59}k_{69}k_{70}k_{71} \oplus k_{59}k_{67} \oplus k_{59}k_{66} \oplus k_{59}k_{64} \oplus k_{59}k_{64}k_{71}k_{73} \oplus k_{59}k_{64}k_{71}k_{72}\oplus$$

$$k_{59}k_{64}k_{69} \oplus k_{59}k_{64}k_{69}k_{70}k_{73} \oplus k_{59}k_{64}k_{69}k_{70}k_{71}k_{72} \oplus k_{59}k_{64}k_{67}k_{68}\oplus$$

$$k_{59}k_{61} \oplus k_{59}k_{61}k_{64}k_{73} \oplus k_{59}k_{61}k_{64}k_{71}k_{72} \oplus k_{59}k_{61}k_{64}k_{69}\oplus$$

$$k_{59}k_{61}k_{64}k_{67}k_{68} \oplus k_{59}k_{60}k_{76} \oplus k_{59}k_{60}k_{76}k_{77} \oplus k_{59}k_{60}k_{75} \oplus k_{59}k_{60}k_{74}k_{78}\oplus$$

$$k_{59}k_{60}k_{74}k_{76}k_{77} \oplus k_{59}k_{60}k_{74}k_{75}k_{77} \oplus k_{59}k_{60}k_{74}k_{75}k_{76} \oplus k_{59}k_{60}k_{73}\oplus$$

$$k_{59}k_{60}k_{73}k_{78} \oplus k_{59}k_{60}k_{73}k_{77} \oplus k_{59}k_{60}k_{73}k_{76} \oplus k_{59}k_{60}k_{73}k_{74}\oplus$$

$$k_{59}k_{60}k_{73}k_{74}k_{76} \oplus k_{59}k_{60}k_{73}k_{74}k_{75}k_{77} \oplus k_{59}k_{60}k_{73}k_{74}k_{75}k_{76}\oplus$$

$$k_{59}k_{60}k_{72}k_{78}k_{79} \oplus k_{59}k_{60}k_{72}k_{73}k_{78} \oplus k_{59}k_{60}k_{72}k_{73}k_{76}k_{77} \oplus k_{59}k_{60}k_{71}\oplus$$

$$k_{59}k_{60}k_{71}k_{72} \oplus k_{59}k_{60}k_{71}k_{72}k_{78} \oplus k_{59}k_{60}k_{71}k_{72}k_{77} \oplus k_{59}k_{60}k_{71}k_{72}k_{76}\oplus$$

$$k_{59}k_{60}k_{71}k_{72}k_{74}k_{75} \oplus k_{59}k_{60}k_{71}k_{72}k_{74}k_{75}k_{77} \oplus k_{59}k_{60}k_{71}k_{72}k_{74}k_{75}k_{76}\oplus$$

$$k_{59}k_{60}k_{70}k_{71}k_{78}k_{79} \oplus k_{59}k_{60}k_{69}k_{70} \oplus k_{59}k_{60}k_{64}k_{72} \oplus k_{59}k_{60}k_{64}k_{72}k_{73}\oplus$$

$$k_{59}k_{60}k_{64}k_{71} \oplus k_{59}k_{60}k_{64}k_{71}k_{72} \oplus k_{59}k_{60}k_{64}k_{70}k_{71}\oplus$$

$$k_{59}k_{60}k_{64}k_{70}k_{71}k_{73} \oplus k_{59}k_{60}k_{64}k_{70}k_{71}k_{72} \oplus k_{59}k_{60}k_{64}k_{69}k_{74}\oplus$$

$$k_{59}k_{60}k_{64}k_{69}k_{73} \oplus k_{59}k_{60}k_{64}k_{69}k_{72} \oplus k_{59}k_{60}k_{64}k_{69}k_{70}\oplus$$

$$k_{59}k_{60}k_{64}k_{69}k_{70}k_{71} \oplus k_{59}k_{60}k_{64}k_{69}k_{70}k_{71}k_{73} \oplus k_{59}k_{60}k_{64}k_{69}k_{70}k_{71}k_{72}\oplus$$

$$k_{59}k_{60}k_{64}k_{67}k_{68}k_{74} \oplus k_{59}k_{60}k_{64}k_{67}k_{68}k_{73} \oplus k_{59}k_{60}k_{64}k_{67}k_{68}k_{72}\oplus$$

$$k_{59}k_{60}k_{64}k_{67}k_{68}k_{70}k_{71} \oplus k_{59}k_{60}k_{64}k_{67}k_{68}k_{70}k_{71}k_{73}\oplus$$

$$k_{59}k_{60}k_{64}k_{67}k_{68}k_{70}k_{71}k_{72} \oplus k_{59}k_{60}k_{63} \oplus k_{59}k_{60}k_{63}k_{73}\oplus$$

$$k_{59}k_{60}k_{63}k_{71}k_{72} \oplus k_{59}k_{60}k_{61}k_{62} \oplus k_{59}k_{60}k_{61}k_{62}k_{73}\oplus$$

$$k_{59}k_{60}k_{61}k_{62}k_{71}k_{72} \oplus k_{58} \oplus k_{58}k_{77} \oplus k_{58}k_{74}k_{75} \oplus k_{58}k_{73}k_{74}k_{76}\oplus$$

$$k_{58}k_{73}k_{74}k_{75} \oplus k_{58}k_{72}k_{78} \oplus k_{58}k_{72}k_{77} \oplus k_{58}k_{72}k_{76} \oplus k_{58}k_{72}k_{76}k_{78}\oplus$$

$$k_{58}k_{72}k_{76}k_{77} \oplus k_{58}k_{72}k_{74}k_{75} \oplus k_{58}k_{72}k_{74}k_{75}k_{78} \oplus k_{58}k_{72}k_{74}k_{75}k_{77}\oplus$$

$$k_{58}k_{72}k_{74}k_{75}k_{76} \oplus k_{58}k_{72}k_{74}k_{75}k_{76}k_{77} \oplus k_{58}k_{70}k_{71}k_{78} \oplus k_{58}k_{70}k_{71}k_{77}\oplus$$

$$k_{58}k_{70}k_{71}k_{76} \oplus k_{58}k_{70}k_{71}k_{76}k_{78} \oplus k_{58}k_{70}k_{71}k_{76}k_{77} \oplus k_{58}k_{70}k_{71}k_{74}k_{75}\oplus$$

$$k_{58}k_{70}k_{71}k_{74}k_{75}k_{78} \oplus k_{58}k_{70}k_{71}k_{74}k_{75}k_{77} \oplus k_{58}k_{70}k_{71}k_{74}k_{75}k_{76}\oplus$$

$$k_{58}k_{70}k_{71}k_{74}k_{75}k_{76}k_{77} \oplus k_{58}k_{65} \oplus k_{58}k_{64}k_{73} \oplus k_{58}k_{64}k_{71}k_{72} \oplus k_{58}k_{63}k_{72}\oplus$$

$k_{58}k_{63}k_{70}k_{71} \oplus k_{58}k_{63}k_{64} \oplus k_{58}k_{62} \oplus k_{58}k_{61}k_{64} \oplus k_{58}k_{61}k_{64}k_{73}\oplus$

$k_{58}k_{61}k_{64}k_{71}k_{72} \oplus k_{58}k_{61}k_{62}k_{72} \oplus k_{58}k_{61}k_{62}k_{70}k_{71} \oplus k_{58}k_{60}k_{73}\oplus$

$k_{58}k_{60}k_{71}k_{72} \oplus k_{58}k_{60}k_{64} \oplus k_{58}k_{60}k_{64}k_{73} \oplus k_{58}k_{60}k_{64}k_{71}k_{72} \oplus k_{58}k_{60}k_{61}\oplus$

$k_{58}k_{59} \oplus k_{58}k_{59}k_{75} \oplus k_{58}k_{59}k_{73} \oplus k_{58}k_{59}k_{73}k_{74} \oplus k_{58}k_{59}k_{72} \oplus k_{58}k_{59}k_{71}\oplus$

$k_{58}k_{59}k_{71}k_{73} \oplus k_{58}k_{59}k_{70}k_{71} \oplus k_{58}k_{59}k_{69} \oplus k_{58}k_{59}k_{69}k_{72} \oplus k_{58}k_{59}k_{69}k_{70}\oplus$

$k_{58}k_{59}k_{69}k_{70}k_{73} \oplus k_{58}k_{59}k_{69}k_{70}k_{71} \oplus k_{58}k_{59}k_{69}k_{70}k_{71}k_{72}\oplus$

$k_{58}k_{59}k_{67}k_{68} \oplus k_{58}k_{59}k_{67}k_{68}k_{72} \oplus k_{58}k_{59}k_{67}k_{68}k_{70}k_{71} \oplus k_{58}k_{59}k_{66}\oplus$

$k_{58}k_{59}k_{65} \oplus k_{58}k_{59}k_{64}k_{73} \oplus k_{58}k_{59}k_{64}k_{72} \oplus k_{58}k_{59}k_{64}k_{71}k_{72}\oplus$

$k_{58}k_{59}k_{64}k_{70}k_{71} \oplus k_{58}k_{59}k_{64}k_{69} \oplus k_{58}k_{59}k_{64}k_{69}k_{72}\oplus$

$k_{58}k_{59}k_{64}k_{69}k_{70}k_{71} \oplus k_{58}k_{59}k_{64}k_{67}k_{68} \oplus k_{58}k_{59}k_{64}k_{67}k_{68}k_{72}\oplus$

$k_{58}k_{59}k_{64}k_{67}k_{68}k_{70}k_{71} \oplus k_{58}k_{59}k_{64}k_{65} \oplus k_{58}k_{59}k_{63}k_{64} \oplus k_{58}k_{59}k_{61}\oplus$

$k_{58}k_{59}k_{61}k_{73} \oplus k_{58}k_{59}k_{61}k_{71}k_{72} \oplus k_{58}k_{59}k_{60}k_{73} \oplus k_{58}k_{59}k_{60}k_{71}k_{72}\oplus$

$k_{58}k_{59}k_{60}k_{64} \oplus k_{57} \oplus k_{57}k_{77} \oplus k_{57}k_{75}k_{76} \oplus k_{57}k_{74} \oplus k_{57}k_{74}k_{75} \oplus k_{57}k_{73}\oplus$

$k_{57}k_{73}k_{74} \oplus k_{57}k_{72}k_{73} \oplus k_{57}k_{72}k_{73}k_{75} \oplus k_{57}k_{72}k_{73}k_{74} \oplus k_{57}k_{71}k_{72}\oplus$

$k_{57}k_{64} \oplus k_{57}k_{64}k_{75} \oplus k_{57}k_{64}k_{74} \oplus k_{57}k_{64}k_{73} \oplus k_{57}k_{64}k_{73}k_{74}\oplus$

$k_{57}k_{64}k_{70}k_{71}k_{73} \oplus k_{57}k_{64}k_{70}k_{71}k_{72} \oplus k_{57}k_{63} \oplus k_{57}k_{61} \oplus k_{57}k_{61}k_{64}k_{74}\oplus$

$k_{57}k_{61}k_{64}k_{72} \oplus k_{57}k_{61}k_{64}k_{71}k_{72} \oplus k_{57}k_{61}k_{64}k_{70}k_{71}\oplus$

$k_{57}k_{61}k_{64}k_{70}k_{71}k_{73} \oplus k_{57}k_{61}k_{64}k_{70}k_{71}k_{72} \oplus k_{57}k_{60} \oplus k_{57}k_{60}k_{73}\oplus$

$k_{57}k_{60}k_{72} \oplus k_{57}k_{60}k_{71}k_{72} \oplus k_{57}k_{60}k_{70}k_{71} \oplus k_{57}k_{60}k_{64}k_{73} \oplus k_{57}k_{60}k_{64}k_{72}\oplus$

$k_{57}k_{60}k_{64}k_{71}k_{72} \oplus k_{57}k_{60}k_{64}k_{70}k_{71} \oplus k_{57}k_{60}k_{61} \oplus k_{57}k_{59}k_{64}k_{73}\oplus$

$k_{57}k_{59}k_{64}k_{71}k_{72} \oplus k_{57}k_{59}k_{61}k_{64} \oplus k_{57}k_{59}k_{60} \oplus k_{57}k_{59}k_{60}k_{64}\oplus$

$k_{57}k_{59}k_{60}k_{64}k_{74} \oplus k_{57}k_{59}k_{60}k_{64}k_{73} \oplus k_{57}k_{59}k_{60}k_{64}k_{72}\oplus$

$k_{57}k_{59}k_{60}k_{64}k_{70}k_{71} \oplus k_{57}k_{59}k_{60}k_{64}k_{70}k_{71}k_{73} \oplus k_{57}k_{59}k_{60}k_{64}k_{70}k_{71}k_{72}\oplus$

$k_{57}k_{58}k_{76} \oplus k_{57}k_{58}k_{75} \oplus k_{57}k_{58}k_{75}k_{78}k_{79} \oplus k_{57}k_{58}k_{74} \oplus k_{57}k_{58}k_{74}k_{75}\oplus$

$k_{57}k_{58}k_{73} \oplus k_{57}k_{58}k_{73}k_{74} \oplus k_{57}k_{58}k_{73}k_{74}k_{78}k_{79} \oplus k_{57}k_{58}k_{72}\oplus$

$k_{57}k_{58}k_{72}k_{73} \oplus k_{57}k_{58}k_{71}k_{72} \oplus k_{57}k_{58}k_{70}k_{71} \oplus k_{57}k_{58}k_{64}k_{71}k_{73}\oplus$

$k_{57}k_{58}k_{64}k_{71}k_{72} \oplus k_{57}k_{58}k_{64}k_{69} \oplus k_{57}k_{58}k_{64}k_{69}k_{70}k_{73}\oplus$

$k_{57}k_{58}k_{64}k_{69}k_{70}k_{71}k_{72} \oplus k_{57}k_{58}k_{64}k_{67}k_{68} \oplus k_{57}k_{58}k_{61} \oplus k_{57}k_{58}k_{61}k_{64}\oplus$

$k_{57}k_{58}k_{61}k_{64}k_{73} \oplus k_{57}k_{58}k_{61}k_{64}k_{71}k_{72} \oplus k_{57}k_{58}k_{61}k_{64}k_{69}\oplus$

$k_{57}k_{58}k_{61}k_{64}k_{67}k_{68} \oplus k_{57}k_{58}k_{60} \oplus k_{57}k_{58}k_{60}k_{73} \oplus k_{57}k_{58}k_{60}k_{71}k_{72}\oplus$

$k_{57}k_{58}k_{60}k_{64} \oplus k_{57}k_{58}k_{60}k_{64}k_{71} \oplus k_{57}k_{58}k_{60}k_{64}k_{71}k_{73}\oplus$

$k_{57}k_{58}k_{60}k_{64}k_{71}k_{72} \oplus k_{57}k_{58}k_{60}k_{64}k_{69}k_{70} \oplus k_{57}k_{58}k_{60}k_{64}k_{69}k_{70}k_{73}\oplus$

$k_{57}k_{58}k_{60}k_{64}k_{69}k_{70}k_{71}k_{72} \oplus k_{57}k_{58}k_{59} \oplus k_{57}k_{58}k_{59}k_{64}\oplus$

$k_{57}k_{58}k_{59}k_{64}k_{72} \oplus k_{57}k_{58}k_{59}k_{64}k_{71} \oplus k_{57}k_{58}k_{59}k_{64}k_{71}k_{73}\oplus$

$k_{57}k_{58}k_{59}k_{64}k_{71}k_{72} \oplus k_{57}k_{58}k_{59}k_{64}k_{70}k_{71} \oplus k_{57}k_{58}k_{59}k_{64}k_{69}k_{70}\oplus$

$k_{57}k_{58}k_{59}k_{64}k_{69}k_{70}k_{73} \oplus k_{57}k_{58}k_{59}k_{64}k_{69}k_{70}k_{71}k_{72} \oplus k_{57}k_{58}k_{59}k_{60}\oplus$

$$k_{57}k_{58}k_{59}k_{60}k_{64} \oplus k_{57}k_{58}k_{59}k_{60}k_{64}k_{73} \oplus k_{57}k_{58}k_{59}k_{60}k_{64}k_{71}k_{72}\oplus$$
$$k_{57}k_{58}k_{59}k_{60}k_{64}k_{69} \oplus k_{57}k_{58}k_{59}k_{60}k_{64}k_{67}k_{68} \oplus k_{56}k_{78} \oplus k_{56}k_{76}\oplus$$
$$k_{56}k_{76}k_{77} \oplus k_{56}k_{75}k_{78}k_{79} \oplus k_{56}k_{74}k_{78} \oplus k_{56}k_{74}k_{76}k_{77} \oplus k_{56}k_{74}k_{75}\oplus$$
$$k_{56}k_{73} \oplus k_{56}k_{73}k_{78}k_{79} \oplus k_{56}k_{73}k_{74}k_{78}k_{79} \oplus k_{56}k_{72} \oplus k_{56}k_{72}k_{78}\oplus$$
$$k_{56}k_{72}k_{78}k_{79} \oplus k_{56}k_{72}k_{77} \oplus k_{56}k_{72}k_{76} \oplus k_{56}k_{72}k_{76}k_{78} \oplus k_{56}k_{72}k_{76}k_{77}\oplus$$
$$k_{56}k_{72}k_{74}k_{75} \oplus k_{56}k_{72}k_{74}k_{75}k_{78} \oplus k_{56}k_{72}k_{74}k_{75}k_{77} \oplus k_{56}k_{72}k_{74}k_{75}k_{76}\oplus$$
$$k_{56}k_{72}k_{74}k_{75}k_{76}k_{77} \oplus k_{56}k_{72}k_{73} \oplus k_{56}k_{72}k_{73}k_{78} \oplus k_{56}k_{72}k_{73}k_{76}k_{77}\oplus$$
$$k_{56}k_{71}k_{72}k_{78}k_{79} \oplus k_{56}k_{70}k_{71} \oplus k_{56}k_{70}k_{71}k_{78} \oplus k_{56}k_{70}k_{71}k_{78}k_{79}\oplus$$
$$k_{56}k_{70}k_{71}k_{77} \oplus k_{56}k_{70}k_{71}k_{76} \oplus k_{56}k_{70}k_{71}k_{76}k_{78} \oplus k_{56}k_{70}k_{71}k_{76}k_{77}\oplus$$
$$k_{56}k_{70}k_{71}k_{74}k_{75} \oplus k_{56}k_{70}k_{71}k_{74}k_{75}k_{78} \oplus k_{56}k_{70}k_{71}k_{74}k_{75}k_{77}\oplus$$
$$k_{56}k_{70}k_{71}k_{74}k_{75}k_{76} \oplus k_{56}k_{70}k_{71}k_{74}k_{75}k_{76}k_{77} \oplus k_{56}k_{70}k_{71}k_{73}\oplus$$
$$k_{56}k_{70}k_{71}k_{72} \oplus k_{56}k_{64}k_{75} \oplus k_{56}k_{64}k_{73}k_{74} \oplus k_{56}k_{64}k_{72}k_{73} \oplus k_{56}k_{64}k_{71}k_{72}\oplus$$
$$k_{56}k_{64}k_{70}k_{71}k_{73} \oplus k_{56}k_{64}k_{70}k_{71}k_{72} \oplus k_{56}k_{63} \oplus k_{56}k_{63}k_{72} \oplus k_{56}k_{63}k_{70}k_{71}\oplus$$
$$k_{56}k_{62} \oplus k_{56}k_{61}k_{64}k_{74} \oplus k_{56}k_{61}k_{64}k_{73} \oplus k_{56}k_{61}k_{64}k_{72} \oplus k_{56}k_{61}k_{64}k_{70}k_{71}\oplus$$
$$k_{56}k_{61}k_{64}k_{70}k_{71}k_{73} \oplus k_{56}k_{61}k_{64}k_{70}k_{71}k_{72} \oplus k_{56}k_{61}k_{62}k_{72}\oplus$$
$$k_{56}k_{61}k_{62}k_{70}k_{71} \oplus k_{56}k_{60} \oplus k_{56}k_{60}k_{72} \oplus k_{56}k_{60}k_{70}k_{71} \oplus k_{56}k_{60}k_{64}\oplus$$
$$k_{56}k_{60}k_{64}k_{72} \oplus k_{56}k_{60}k_{64}k_{70}k_{71} \oplus k_{56}k_{59}k_{78}k_{79} \oplus k_{56}k_{59}k_{64}\oplus$$
$$k_{56}k_{59}k_{61}k_{64} \oplus k_{56}k_{59}k_{60} \oplus k_{56}k_{59}k_{60}k_{64} \oplus k_{56}k_{59}k_{60}k_{64}k_{74}\oplus$$
$$k_{56}k_{59}k_{60}k_{64}k_{73} \oplus k_{56}k_{59}k_{60}k_{64}k_{72} \oplus k_{56}k_{59}k_{60}k_{64}k_{70}k_{71}\oplus$$
$$k_{56}k_{59}k_{60}k_{64}k_{70}k_{71}k_{73} \oplus k_{56}k_{59}k_{60}k_{64}k_{70}k_{71}k_{72} \oplus k_{56}k_{58}k_{59}\oplus$$
$$k_{56}k_{58}k_{59}k_{72} \oplus k_{56}k_{58}k_{59}k_{70}k_{71} \oplus k_{56}k_{58}k_{59}k_{64} \oplus k_{56}k_{58}k_{59}k_{64}k_{72}\oplus$$
$$k_{56}k_{58}k_{59}k_{64}k_{70}k_{71} \oplus k_{56}k_{57}k_{75} \oplus k_{56}k_{57}k_{74} \oplus k_{56}k_{57}k_{73}k_{74}\oplus$$
$$k_{56}k_{57}k_{72}k_{73} \oplus k_{56}k_{57}k_{58} \oplus k_{56}k_{57}k_{58}k_{64} \oplus k_{56}k_{57}k_{58}k_{61}k_{64}\oplus$$
$$k_{56}k_{57}k_{58}k_{59}k_{60}k_{64} \oplus k_{55} \oplus k_{55}k_{78} \oplus k_{55}k_{76}k_{77} \oplus k_{55}k_{75}k_{78}k_{79} \oplus k_{55}k_{74}\oplus$$
$$k_{55}k_{74}k_{75} \oplus k_{55}k_{73} \oplus k_{55}k_{73}k_{75} \oplus k_{55}k_{73}k_{74}k_{78}k_{79} \oplus k_{55}k_{72}k_{73}\oplus$$
$$k_{55}k_{72}k_{73}k_{75} \oplus k_{55}k_{72}k_{73}k_{74} \oplus k_{55}k_{71}k_{75} \oplus k_{55}k_{71}k_{73}k_{74} \oplus k_{55}k_{71}k_{72}\oplus$$
$$k_{55}k_{70}k_{71}k_{75} \oplus k_{55}k_{70}k_{71}k_{73}k_{74} \oplus k_{55}k_{69}k_{70}k_{75} \oplus k_{55}k_{69}k_{70}k_{73}k_{74}\oplus$$
$$k_{55}k_{69}k_{70}k_{72}k_{75} \oplus k_{55}k_{69}k_{70}k_{72}k_{73}k_{74} \oplus k_{55}k_{69}k_{70}k_{71}k_{75}\oplus$$
$$k_{55}k_{69}k_{70}k_{71}k_{73}k_{74} \oplus k_{55}k_{67} \oplus k_{55}k_{66} \oplus k_{55}k_{64} \oplus k_{55}k_{64}k_{72}k_{73}\oplus$$
$$k_{55}k_{64}k_{71}k_{72} \oplus k_{55}k_{64}k_{70}k_{71}k_{73} \oplus k_{55}k_{64}k_{70}k_{71}k_{72} \oplus k_{55}k_{61}k_{78}\oplus$$
$$k_{55}k_{61}k_{76}k_{77} \oplus k_{55}k_{61}k_{74}k_{78} \oplus k_{55}k_{61}k_{74}k_{76}k_{77} \oplus k_{55}k_{61}k_{72}k_{73}k_{78}\oplus$$
$$k_{55}k_{61}k_{72}k_{73}k_{76}k_{77} \oplus k_{55}k_{61}k_{64} \oplus k_{55}k_{61}k_{64}k_{73} \oplus k_{55}k_{61}k_{64}k_{72}\oplus$$
$$k_{55}k_{61}k_{64}k_{72}k_{73} \oplus k_{55}k_{61}k_{64}k_{70}k_{71} \oplus k_{55}k_{61}k_{64}k_{70}k_{71}k_{73}\oplus$$
$$k_{55}k_{61}k_{64}k_{70}k_{71}k_{72} \oplus k_{55}k_{60}k_{72} \oplus k_{55}k_{60}k_{70}k_{71} \oplus k_{55}k_{60}k_{64}\oplus$$
$$k_{55}k_{60}k_{64}k_{72} \oplus k_{55}k_{60}k_{64}k_{70}k_{71} \oplus k_{55}k_{59}k_{64} \oplus k_{55}k_{59}k_{61}k_{64}\oplus$$
$$k_{55}k_{59}k_{60}k_{78} \oplus k_{55}k_{59}k_{60}k_{76}k_{77} \oplus k_{55}k_{59}k_{60}k_{74}k_{78}\oplus$$

$$k_{55}k_{59}k_{60}k_{74}k_{76}k_{77} \oplus k_{55}k_{59}k_{60}k_{72}k_{73}k_{78} \oplus k_{55}k_{59}k_{60}k_{72}k_{73}k_{76}k_{77}\oplus$$

$$k_{55}k_{59}k_{60}k_{64}k_{73} \oplus k_{55}k_{59}k_{60}k_{64}k_{72} \oplus k_{55}k_{59}k_{60}k_{64}k_{72}k_{73}\oplus$$

$$k_{55}k_{59}k_{60}k_{64}k_{70}k_{71} \oplus k_{55}k_{59}k_{60}k_{64}k_{70}k_{71}k_{73} \oplus k_{55}k_{59}k_{60}k_{64}k_{70}k_{71}k_{72}\oplus$$

$$k_{55}k_{58}k_{75} \oplus k_{55}k_{58}k_{73}k_{74} \oplus k_{55}k_{58}k_{59} \oplus k_{55}k_{58}k_{59}k_{72} \oplus k_{55}k_{58}k_{59}k_{70}k_{71}\oplus$$

$$k_{55}k_{58}k_{59}k_{64} \oplus k_{55}k_{58}k_{59}k_{64}k_{72} \oplus k_{55}k_{58}k_{59}k_{64}k_{70}k_{71} \oplus k_{55}k_{57}k_{58}k_{64}\oplus$$

$$k_{55}k_{57}k_{58}k_{61}k_{64} \oplus k_{55}k_{57}k_{58}k_{59}k_{60}k_{64} \oplus k_{55}k_{56}k_{75} \oplus k_{55}k_{56}k_{73}\oplus$$

$$k_{55}k_{56}k_{73}k_{74} \oplus k_{55}k_{56}k_{71}k_{72} \oplus k_{55}k_{56}k_{64}k_{74} \oplus k_{55}k_{56}k_{64}k_{71}k_{72}\oplus$$

$$k_{55}k_{56}k_{64}k_{70}k_{71}k_{73} \oplus k_{55}k_{56}k_{64}k_{70}k_{71}k_{72} \oplus k_{55}k_{56}k_{63} \oplus k_{55}k_{56}k_{62}\oplus$$

$$k_{55}k_{56}k_{61}k_{64} \oplus k_{55}k_{56}k_{61}k_{64}k_{74} \oplus k_{55}k_{56}k_{61}k_{64}k_{73} \oplus k_{55}k_{56}k_{61}k_{64}k_{72}\oplus$$

$$k_{55}k_{56}k_{61}k_{64}k_{70}k_{71} \oplus k_{55}k_{56}k_{61}k_{64}k_{70}k_{71}k_{73} \oplus k_{55}k_{56}k_{61}k_{64}k_{70}k_{71}k_{72}\oplus$$

$$k_{55}k_{56}k_{60} \oplus k_{55}k_{56}k_{60}k_{72} \oplus k_{55}k_{56}k_{60}k_{70}k_{71} \oplus k_{55}k_{56}k_{60}k_{64}\oplus$$

$$k_{55}k_{56}k_{60}k_{64}k_{72} \oplus k_{55}k_{56}k_{60}k_{64}k_{70}k_{71} \oplus k_{55}k_{56}k_{59}k_{64}\oplus$$

$$k_{55}k_{56}k_{59}k_{61}k_{64} \oplus k_{55}k_{56}k_{59}k_{60}k_{64}k_{74} \oplus k_{55}k_{56}k_{59}k_{60}k_{64}k_{73}\oplus$$

$$k_{55}k_{56}k_{59}k_{60}k_{64}k_{72} \oplus k_{55}k_{56}k_{59}k_{60}k_{64}k_{70}k_{71}\oplus$$

$$k_{55}k_{56}k_{59}k_{60}k_{64}k_{70}k_{71}k_{73} \oplus k_{55}k_{56}k_{59}k_{60}k_{64}k_{70}k_{71}k_{72} \oplus k_{55}k_{56}k_{58}k_{59}\oplus$$

$$k_{55}k_{56}k_{58}k_{59}k_{72} \oplus k_{55}k_{56}k_{58}k_{59}k_{70}k_{71} \oplus k_{55}k_{56}k_{58}k_{59}k_{64}\oplus$$

$$k_{55}k_{56}k_{58}k_{59}k_{64}k_{72} \oplus k_{55}k_{56}k_{58}k_{59}k_{64}k_{70}k_{71} \oplus k_{55}k_{56}k_{57}k_{75}\oplus$$

$$k_{55}k_{56}k_{57}k_{73}k_{74} \oplus k_{55}k_{56}k_{57}k_{58}k_{64} \oplus k_{55}k_{56}k_{57}k_{58}k_{61}k_{64}\oplus$$

$$k_{55}k_{56}k_{57}k_{58}k_{59}k_{60}k_{64} \oplus k_{54}k_{78} \oplus k_{54}k_{76}k_{77} \oplus k_{54}k_{74} \oplus k_{54}k_{74}k_{75}\oplus$$

$$k_{54}k_{73}k_{75} \oplus k_{54}k_{72}k_{76} \oplus k_{54}k_{72}k_{75} \oplus k_{54}k_{72}k_{74} \oplus k_{54}k_{72}k_{73}k_{75}\oplus$$

$$k_{54}k_{72}k_{73}k_{74} \oplus k_{54}k_{70}k_{71}k_{76} \oplus k_{54}k_{70}k_{71}k_{75} \oplus k_{54}k_{70}k_{71}k_{74}\oplus$$

$$k_{54}k_{70}k_{71}k_{73}k_{75} \oplus k_{54}k_{70}k_{71}k_{73}k_{74} \oplus k_{54}k_{70}k_{71}k_{72}k_{75}\oplus$$

$$k_{54}k_{70}k_{71}k_{72}k_{73} \oplus k_{54}k_{70}k_{71}k_{72}k_{73}k_{75} \oplus k_{54}k_{61}k_{72} \oplus k_{54}k_{61}k_{70}k_{71}\oplus$$

$$k_{54}k_{59}k_{75} \oplus k_{54}k_{59}k_{73}k_{74} \oplus k_{54}k_{59}k_{60}k_{72} \oplus k_{54}k_{59}k_{60}k_{70}k_{71}\oplus$$

$$k_{54}k_{57}k_{60}k_{64} \oplus k_{54}k_{57}k_{58}k_{75} \oplus k_{54}k_{57}k_{58}k_{73}k_{74} \oplus k_{54}k_{57}k_{58}k_{59}k_{64}\oplus$$

$$k_{54}k_{56}k_{75} \oplus k_{54}k_{56}k_{73}k_{74} \oplus k_{54}k_{56}k_{72} \oplus k_{54}k_{56}k_{70}k_{71} \oplus k_{54}k_{55}\oplus$$

$$k_{54}k_{55}k_{75} \oplus k_{54}k_{55}k_{73} \oplus k_{54}k_{55}k_{73}k_{78}k_{79} \oplus k_{54}k_{55}k_{73}k_{74} \oplus k_{54}k_{55}k_{71}k_{72}\oplus$$

$$k_{54}k_{55}k_{71}k_{72}k_{78}k_{79} \oplus k_{54}k_{55}k_{61} \oplus k_{54}k_{55}k_{59} \oplus k_{54}k_{55}k_{59}k_{78}k_{79}\oplus$$

$$k_{53}k_{74}k_{75} \oplus k_{53}k_{73} \oplus k_{53}k_{73}k_{75} \oplus k_{53}k_{72} \oplus k_{53}k_{72}k_{76} \oplus k_{53}k_{72}k_{75}\oplus$$

$$k_{53}k_{72}k_{74} \oplus k_{53}k_{72}k_{73} \oplus k_{53}k_{72}k_{73}k_{75} \oplus k_{53}k_{72}k_{73}k_{74} \oplus k_{53}k_{71}k_{72}\oplus$$

$$k_{53}k_{70}k_{71} \oplus k_{53}k_{70}k_{71}k_{76} \oplus k_{53}k_{70}k_{71}k_{75} \oplus k_{53}k_{70}k_{71}k_{74}\oplus$$

$$k_{53}k_{70}k_{71}k_{73}k_{75} \oplus k_{53}k_{70}k_{71}k_{73}k_{74} \oplus k_{53}k_{70}k_{71}k_{72}k_{75}\oplus$$

$$k_{53}k_{70}k_{71}k_{72}k_{73} \oplus k_{53}k_{70}k_{71}k_{72}k_{73}k_{75} \oplus k_{53}k_{65} \oplus k_{53}k_{63}k_{64} \oplus k_{53}k_{62}\oplus$$

$$k_{53}k_{61}k_{72} \oplus k_{53}k_{61}k_{70}k_{71} \oplus k_{53}k_{60}k_{61} \oplus k_{53}k_{59}k_{75} \oplus k_{53}k_{59}k_{73}k_{74}\oplus$$

$$k_{53}k_{59}k_{60}k_{72} \oplus k_{53}k_{59}k_{60}k_{70}k_{71} \oplus k_{53}k_{57}k_{58}k_{75} \oplus k_{53}k_{57}k_{58}k_{73}k_{74}\oplus$$

$$k_{53}k_{56}k_{75} \oplus k_{53}k_{56}k_{73} \oplus k_{53}k_{56}k_{73}k_{74} \oplus k_{53}k_{56}k_{72} \oplus k_{53}k_{56}k_{71}k_{72}\oplus$$

$$k_{53}k_{56}k_{70}k_{71} \oplus k_{53}k_{56}k_{59} \oplus k_{53}k_{55}k_{75} \oplus k_{53}k_{55}k_{73}k_{74} \oplus k_{53}k_{54}k_{60} \oplus$$
$$k_{53}k_{54}k_{55}k_{73} \oplus k_{53}k_{54}k_{55}k_{71}k_{72} \oplus k_{53}k_{54}k_{55}k_{59} \oplus k_{52} \oplus k_{52}k_{79} \oplus k_{52}k_{78} \oplus$$
$$k_{52}k_{77}k_{78} \oplus k_{52}k_{76}k_{77} \oplus k_{52}k_{75} \oplus k_{52}k_{74}k_{78} \oplus k_{52}k_{74}k_{76}k_{77} \oplus k_{52}k_{73}k_{74} \oplus$$
$$k_{52}k_{72}k_{73}k_{78} \oplus k_{52}k_{72}k_{73}k_{76}k_{77} \oplus k_{52}k_{68}k_{74} \oplus k_{52}k_{68}k_{72}k_{73} \oplus k_{52}k_{67} \oplus$$
$$k_{52}k_{65} \oplus k_{52}k_{64} \oplus k_{52}k_{63}k_{64} \oplus k_{52}k_{63}k_{64}k_{66} \oplus k_{52}k_{63}k_{64}k_{65} \oplus k_{52}k_{60} \oplus$$
$$k_{52}k_{60}k_{61} \oplus k_{51}k_{79} \oplus k_{51}k_{78} \oplus k_{51}k_{77} \oplus k_{51}k_{76} \oplus k_{51}k_{76}k_{77} \oplus$$
$$k_{51}k_{76}k_{77}k_{79} \oplus k_{51}k_{76}k_{77}k_{78} \oplus k_{51}k_{75} \oplus k_{51}k_{75}k_{76} \oplus k_{51}k_{74}k_{79} \oplus$$
$$k_{51}k_{74}k_{77}k_{78} \oplus k_{51}k_{74}k_{75} \oplus k_{51}k_{73}k_{74} \oplus k_{51}k_{72}k_{73}k_{79} \oplus k_{51}k_{72}k_{73}k_{77}k_{78} \oplus$$
$$k_{51}k_{68}k_{79} \oplus k_{51}k_{68}k_{77}k_{78} \oplus k_{51}k_{67} \oplus k_{51}k_{65} \oplus k_{51}k_{64} \oplus k_{51}k_{64}k_{65} \oplus$$
$$k_{51}k_{63}k_{64} \oplus k_{51}k_{63}k_{64}k_{66} \oplus k_{51}k_{63}k_{64}k_{65} \oplus k_{51}k_{62} \oplus k_{51}k_{61}k_{74} \oplus$$
$$k_{51}k_{61}k_{73} \oplus k_{51}k_{61}k_{72}k_{73} \oplus k_{51}k_{61}k_{71}k_{72} \oplus k_{51}k_{60} \oplus k_{51}k_{60}k_{77} \oplus$$
$$k_{51}k_{60}k_{75}k_{76} \oplus k_{51}k_{60}k_{74} \oplus k_{51}k_{60}k_{72}k_{73} \oplus k_{51}k_{60}k_{64} \oplus k_{51}k_{60}k_{61} \oplus$$
$$k_{51}k_{59} \oplus k_{51}k_{59}k_{60} \oplus k_{51}k_{59}k_{60}k_{74} \oplus k_{51}k_{59}k_{60}k_{73} \oplus k_{51}k_{59}k_{60}k_{72}k_{73} \oplus$$
$$k_{51}k_{59}k_{60}k_{71}k_{72} \oplus k_{51}k_{58}k_{72} \oplus k_{51}k_{58}k_{72}k_{76} \oplus k_{51}k_{58}k_{72}k_{74}k_{75} \oplus$$
$$k_{51}k_{58}k_{70}k_{71} \oplus k_{51}k_{58}k_{70}k_{71}k_{76} \oplus k_{51}k_{58}k_{70}k_{71}k_{74}k_{75} \oplus k_{51}k_{56} \oplus$$
$$k_{51}k_{56}k_{74} \oplus k_{51}k_{56}k_{72} \oplus k_{51}k_{56}k_{72}k_{76} \oplus k_{51}k_{56}k_{72}k_{74}k_{75} \oplus k_{51}k_{56}k_{72}k_{73} \oplus$$
$$k_{51}k_{56}k_{70}k_{71} \oplus k_{51}k_{56}k_{70}k_{71}k_{76} \oplus k_{51}k_{56}k_{70}k_{71}k_{74}k_{75} \oplus k_{51}k_{55} \oplus$$
$$k_{51}k_{55}k_{61} \oplus k_{51}k_{55}k_{61}k_{74} \oplus k_{51}k_{55}k_{61}k_{72}k_{73} \oplus k_{51}k_{55}k_{59}k_{60} \oplus$$
$$k_{51}k_{55}k_{59}k_{60}k_{74} \oplus k_{51}k_{55}k_{59}k_{60}k_{72}k_{73} \oplus k_{51}k_{52} \oplus k_{51}k_{52}k_{78} \oplus$$
$$k_{51}k_{52}k_{76}k_{77} \oplus k_{51}k_{52}k_{74} \oplus k_{51}k_{52}k_{72}k_{73} \oplus k_{51}k_{52}k_{68} \oplus k_{51}k_{52}k_{62} \oplus$$
$$k_{51}k_{52}k_{60}k_{61} \oplus k_{50}k_{79} \oplus k_{50}k_{77} \oplus k_{50}k_{76}k_{77}k_{79} \oplus k_{50}k_{76}k_{77}k_{78} \oplus k_{50}k_{75} \oplus$$
$$k_{50}k_{75}k_{76} \oplus k_{50}k_{74}k_{75} \oplus k_{50}k_{73} \oplus k_{50}k_{73}k_{76} \oplus k_{50}k_{73}k_{75} \oplus k_{50}k_{73}k_{74}k_{75} \oplus$$
$$k_{50}k_{72} \oplus k_{50}k_{72}k_{76} \oplus k_{50}k_{72}k_{74}k_{75} \oplus k_{50}k_{72}k_{73} \oplus k_{50}k_{72}k_{73}k_{75} \oplus$$
$$k_{50}k_{72}k_{73}k_{74} \oplus k_{50}k_{71}k_{72} \oplus k_{50}k_{71}k_{72}k_{76} \oplus k_{50}k_{71}k_{72}k_{75} \oplus k_{50}k_{71}k_{72}k_{74} \oplus$$
$$k_{50}k_{71}k_{72}k_{74}k_{75} \oplus k_{50}k_{71}k_{72}k_{73} \oplus k_{50}k_{71}k_{72}k_{73}k_{74} \oplus k_{50}k_{70}k_{71} \oplus$$
$$k_{50}k_{70}k_{71}k_{76} \oplus k_{50}k_{70}k_{71}k_{74}k_{75} \oplus k_{50}k_{68}k_{79} \oplus k_{50}k_{68}k_{77}k_{78} \oplus k_{50}k_{67} \oplus$$
$$k_{50}k_{65} \oplus k_{50}k_{64}k_{75} \oplus k_{50}k_{64}k_{73}k_{74} \oplus k_{50}k_{64}k_{65} \oplus k_{50}k_{63} \oplus k_{50}k_{63}k_{64} \oplus$$
$$k_{50}k_{63}k_{64}k_{66} \oplus k_{50}k_{63}k_{64}k_{65} \oplus k_{50}k_{61}k_{76} \oplus k_{50}k_{61}k_{74}k_{75} \oplus k_{50}k_{61}k_{73}k_{76} \oplus$$
$$k_{50}k_{61}k_{73}k_{74}k_{75} \oplus k_{50}k_{61}k_{71}k_{72}k_{76} \oplus k_{50}k_{61}k_{71}k_{72}k_{74}k_{75} \oplus k_{50}k_{61}k_{62} \oplus$$
$$k_{50}k_{60}k_{77} \oplus k_{50}k_{60}k_{75} \oplus k_{50}k_{60}k_{75}k_{76} \oplus k_{50}k_{60}k_{73}k_{74} \oplus k_{50}k_{60}k_{64} \oplus$$
$$k_{50}k_{60}k_{61} \oplus k_{50}k_{59} \oplus k_{50}k_{59}k_{60} \oplus k_{50}k_{59}k_{60}k_{76} \oplus k_{50}k_{59}k_{60}k_{74}k_{75} \oplus$$
$$k_{50}k_{59}k_{60}k_{73}k_{76} \oplus k_{50}k_{59}k_{60}k_{73}k_{74}k_{75} \oplus k_{50}k_{59}k_{60}k_{71}k_{72}k_{76} \oplus$$
$$k_{50}k_{59}k_{60}k_{71}k_{72}k_{74}k_{75} \oplus k_{50}k_{58} \oplus k_{50}k_{58}k_{75} \oplus k_{50}k_{58}k_{73}k_{74} \oplus k_{50}k_{58}k_{72} \oplus$$
$$k_{50}k_{58}k_{72}k_{76} \oplus k_{50}k_{58}k_{72}k_{74}k_{75} \oplus k_{50}k_{58}k_{70}k_{71} \oplus k_{50}k_{58}k_{70}k_{71}k_{76} \oplus$$
$$k_{50}k_{58}k_{70}k_{71}k_{74}k_{75} \oplus k_{50}k_{58}k_{59}k_{75} \oplus k_{50}k_{58}k_{59}k_{73}k_{74} \oplus k_{50}k_{57} \oplus$$
$$k_{50}k_{56}k_{72} \oplus k_{50}k_{56}k_{72}k_{76} \oplus k_{50}k_{56}k_{72}k_{74}k_{75} \oplus k_{50}k_{56}k_{70}k_{71} \oplus$$

$$k_{50}k_{56}k_{70}k_{71}k_{76} \oplus k_{50}k_{56}k_{70}k_{71}k_{74}k_{75} \oplus k_{50}k_{54} \oplus k_{50}k_{52}k_{78} \oplus$$
$$k_{50}k_{52}k_{76}k_{77} \oplus k_{50}k_{52}k_{68} \oplus k_{50}k_{51}k_{74} \oplus k_{50}k_{51}k_{72}k_{73} \oplus k_{50}k_{51}k_{64} \oplus$$
$$k_{50}k_{51}k_{62} \oplus k_{50}k_{51}k_{60}k_{61} \oplus k_{49}k_{79} \oplus k_{49}k_{78} \oplus k_{49}k_{76} \oplus k_{49}k_{76}k_{77} \oplus$$
$$k_{49}k_{76}k_{77}k_{79} \oplus k_{49}k_{76}k_{77}k_{78} \oplus k_{49}k_{74} \oplus k_{49}k_{73} \oplus k_{49}k_{73}k_{74} \oplus k_{49}k_{72} \oplus$$
$$k_{49}k_{72}k_{77} \oplus k_{49}k_{72}k_{76} \oplus k_{49}k_{72}k_{75} \oplus k_{49}k_{72}k_{75}k_{76} \oplus k_{49}k_{72}k_{74}k_{75} \oplus$$
$$k_{49}k_{72}k_{73} \oplus k_{49}k_{72}k_{73}k_{75} \oplus k_{49}k_{71}k_{72} \oplus k_{49}k_{70}k_{71} \oplus k_{49}k_{70}k_{71}k_{77} \oplus$$
$$k_{49}k_{70}k_{71}k_{76} \oplus k_{49}k_{70}k_{71}k_{75} \oplus k_{49}k_{70}k_{71}k_{75}k_{76} \oplus k_{49}k_{70}k_{71}k_{74}k_{75} \oplus$$
$$k_{49}k_{70}k_{71}k_{73}k_{74} \oplus k_{49}k_{68}k_{79} \oplus k_{49}k_{68}k_{77}k_{78} \oplus k_{49}k_{67} \oplus k_{49}k_{66} \oplus k_{49}k_{65} \oplus$$
$$k_{49}k_{63} \oplus k_{49}k_{63}k_{64} \oplus k_{49}k_{63}k_{64}k_{66} \oplus k_{49}k_{63}k_{64}k_{65} \oplus k_{49}k_{62} \oplus k_{49}k_{61} \oplus$$
$$k_{49}k_{61}k_{77} \oplus k_{49}k_{61}k_{75} \oplus k_{49}k_{61}k_{75}k_{76} \oplus k_{49}k_{61}k_{73} \oplus k_{49}k_{61}k_{73}k_{77} \oplus$$
$$k_{49}k_{61}k_{73}k_{75}k_{76} \oplus k_{49}k_{61}k_{73}k_{74} \oplus k_{49}k_{61}k_{71}k_{72} \oplus k_{49}k_{61}k_{71}k_{72}k_{77} \oplus$$
$$k_{49}k_{61}k_{71}k_{72}k_{75}k_{76} \oplus k_{49}k_{61}k_{62} \oplus k_{49}k_{60} \oplus k_{49}k_{60}k_{77} \oplus k_{49}k_{60}k_{75}k_{76} \oplus$$
$$k_{49}k_{60}k_{66} \oplus k_{49}k_{60}k_{64} \oplus k_{49}k_{60}k_{64}k_{65} \oplus k_{49}k_{59}k_{60}k_{77} \oplus k_{49}k_{59}k_{60}k_{75} \oplus$$
$$k_{49}k_{59}k_{60}k_{75}k_{76} \oplus k_{49}k_{59}k_{60}k_{73} \oplus k_{49}k_{59}k_{60}k_{73}k_{77} \oplus$$
$$k_{49}k_{59}k_{60}k_{73}k_{75}k_{76} \oplus k_{49}k_{59}k_{60}k_{73}k_{74} \oplus k_{49}k_{59}k_{60}k_{71}k_{72} \oplus$$
$$k_{49}k_{59}k_{60}k_{71}k_{72}k_{77} \oplus k_{49}k_{59}k_{60}k_{71}k_{72}k_{75}k_{76} \oplus k_{49}k_{58} \oplus k_{49}k_{58}k_{75} \oplus$$
$$k_{49}k_{58}k_{73}k_{74} \oplus k_{49}k_{58}k_{72} \oplus k_{49}k_{58}k_{72}k_{78} \oplus k_{49}k_{58}k_{72}k_{77} \oplus$$
$$k_{49}k_{58}k_{72}k_{76}k_{77} \oplus k_{49}k_{58}k_{72}k_{75}k_{76} \oplus k_{49}k_{58}k_{70}k_{71} \oplus k_{49}k_{58}k_{70}k_{71}k_{78} \oplus$$
$$k_{49}k_{58}k_{70}k_{71}k_{77} \oplus k_{49}k_{58}k_{70}k_{71}k_{76}k_{77} \oplus k_{49}k_{58}k_{70}k_{71}k_{75}k_{76} \oplus$$
$$k_{49}k_{58}k_{59} \oplus k_{49}k_{56} \oplus k_{49}k_{56}k_{72} \oplus k_{49}k_{56}k_{72}k_{78} \oplus k_{49}k_{56}k_{72}k_{77} \oplus$$
$$k_{49}k_{56}k_{72}k_{76}k_{77} \oplus k_{49}k_{56}k_{72}k_{75}k_{76} \oplus k_{49}k_{56}k_{70}k_{71} \oplus k_{49}k_{56}k_{70}k_{71}k_{78} \oplus$$
$$k_{49}k_{56}k_{70}k_{71}k_{77} \oplus k_{49}k_{56}k_{70}k_{71}k_{76}k_{77} \oplus k_{49}k_{56}k_{70}k_{71}k_{75}k_{76} \oplus k_{49}k_{55} \oplus$$
$$k_{49}k_{55}k_{72}k_{75} \oplus k_{49}k_{55}k_{72}k_{73}k_{74} \oplus k_{49}k_{55}k_{70}k_{71}k_{75} \oplus$$
$$k_{49}k_{55}k_{70}k_{71}k_{73}k_{74} \oplus k_{49}k_{54} \oplus k_{49}k_{54}k_{72} \oplus k_{49}k_{54}k_{70}k_{71} \oplus k_{49}k_{52}k_{78} \oplus$$
$$k_{49}k_{52}k_{76}k_{77} \oplus k_{49}k_{52}k_{68} \oplus k_{49}k_{51}k_{79} \oplus k_{49}k_{51}k_{77}k_{78} \oplus k_{49}k_{51}k_{58}k_{72} \oplus$$
$$k_{49}k_{51}k_{58}k_{70}k_{71} \oplus k_{49}k_{51}k_{56}k_{72} \oplus k_{49}k_{51}k_{56}k_{70}k_{71} \oplus k_{49}k_{51}k_{52} \oplus k_{49}k_{50} \oplus$$
$$k_{49}k_{50}k_{79} \oplus k_{49}k_{50}k_{78} \oplus k_{49}k_{50}k_{77} \oplus k_{49}k_{50}k_{76}k_{77} \oplus k_{49}k_{50}k_{76}k_{77}k_{79} \oplus$$
$$k_{49}k_{50}k_{76}k_{77}k_{78} \oplus k_{49}k_{50}k_{75} \oplus k_{49}k_{50}k_{75}k_{76} \oplus k_{49}k_{50}k_{74} \oplus k_{49}k_{50}k_{73}k_{74} \oplus$$
$$k_{49}k_{50}k_{72} \oplus k_{49}k_{50}k_{72}k_{73} \oplus k_{49}k_{50}k_{70}k_{71} \oplus k_{49}k_{50}k_{68}k_{79} \oplus$$
$$k_{49}k_{50}k_{68}k_{77}k_{78} \oplus k_{49}k_{50}k_{67} \oplus k_{49}k_{50}k_{66} \oplus k_{49}k_{50}k_{65} \oplus k_{49}k_{50}k_{64} \oplus$$
$$k_{49}k_{50}k_{63} \oplus k_{49}k_{50}k_{63}k_{64} \oplus k_{49}k_{50}k_{63}k_{64}k_{66} \oplus k_{49}k_{50}k_{63}k_{64}k_{65} \oplus$$
$$k_{49}k_{50}k_{61}k_{73} \oplus k_{49}k_{50}k_{61}k_{71}k_{72} \oplus k_{49}k_{50}k_{61}k_{62} \oplus k_{49}k_{50}k_{60}k_{77} \oplus$$
$$k_{49}k_{50}k_{60}k_{75}k_{76} \oplus k_{49}k_{50}k_{60}k_{64} \oplus k_{49}k_{50}k_{60}k_{61} \oplus k_{49}k_{50}k_{59} \oplus$$
$$k_{49}k_{50}k_{59}k_{60} \oplus k_{49}k_{50}k_{59}k_{60}k_{73} \oplus k_{49}k_{50}k_{59}k_{60}k_{71}k_{72} \oplus k_{49}k_{50}k_{58}k_{72} \oplus$$
$$k_{49}k_{50}k_{58}k_{70}k_{71} \oplus k_{49}k_{50}k_{56}k_{72} \oplus k_{49}k_{50}k_{56}k_{70}k_{71} \oplus k_{49}k_{50}k_{54} \oplus$$
$$k_{49}k_{50}k_{52} \oplus k_{49}k_{50}k_{52}k_{78} \oplus k_{49}k_{50}k_{52}k_{76}k_{77} \oplus k_{49}k_{50}k_{52}k_{68} \oplus$$

$k_{49}k_{50}k_{51}k_{79} \oplus k_{49}k_{50}k_{51}k_{77}k_{78} \oplus k_{49}k_{50}k_{51}k_{52} \oplus k_{48}k_{79} \oplus k_{48}k_{78}\oplus$

$k_{48}k_{78}k_{79} \oplus k_{48}k_{77} \oplus k_{48}k_{77}k_{78} \oplus k_{48}k_{76}k_{77} \oplus k_{48}k_{75} \oplus k_{48}k_{75}k_{76}\oplus$

$k_{48}k_{74} \oplus k_{48}k_{74}k_{78}k_{79} \oplus k_{48}k_{74}k_{76} \oplus k_{48}k_{74}k_{75} \oplus k_{48}k_{73}k_{78}k_{79}\oplus$

$k_{48}k_{72}k_{78}k_{79} \oplus k_{48}k_{72}k_{74}k_{78}k_{79} \oplus k_{48}k_{72}k_{73}k_{78}k_{79} \oplus k_{48}k_{72}k_{73}k_{76}\oplus$

$k_{48}k_{72}k_{73}k_{74}k_{75} \oplus k_{48}k_{71} \oplus k_{48}k_{71}k_{72} \oplus k_{48}k_{71}k_{72}k_{74} \oplus k_{48}k_{71}k_{72}k_{73}\oplus$

$k_{48}k_{70}k_{71} \oplus k_{48}k_{70}k_{71}k_{78}k_{79} \oplus k_{48}k_{70}k_{71}k_{74}k_{78}k_{79}\oplus$

$k_{48}k_{70}k_{71}k_{73}k_{78}k_{79} \oplus k_{48}k_{70}k_{71}k_{72}k_{78}k_{79} \oplus k_{48}k_{70}k_{71}k_{72}k_{73}k_{78}k_{79}\oplus$

$k_{48}k_{69} \oplus k_{48}k_{69}k_{70} \oplus k_{48}k_{69}k_{70}k_{72} \oplus k_{48}k_{69}k_{70}k_{71} \oplus k_{48}k_{67}k_{68} \oplus k_{48}k_{66}\oplus$

$k_{48}k_{64} \oplus k_{48}k_{61}k_{76} \oplus k_{48}k_{61}k_{74}k_{75} \oplus k_{48}k_{60} \oplus k_{48}k_{60}k_{72} \oplus k_{48}k_{60}k_{70}k_{71}\oplus$

$k_{48}k_{59}k_{78}k_{79} \oplus k_{48}k_{59}k_{72} \oplus k_{48}k_{59}k_{70}k_{71} \oplus k_{48}k_{59}k_{60}k_{76}\oplus$

$k_{48}k_{59}k_{60}k_{74}k_{75} \oplus k_{48}k_{58} \oplus k_{48}k_{58}k_{76} \oplus k_{48}k_{58}k_{74}k_{75} \oplus k_{48}k_{58}k_{59}\oplus$

$k_{48}k_{58}k_{59}k_{72} \oplus k_{48}k_{58}k_{59}k_{70}k_{71} \oplus k_{48}k_{57}k_{74} \oplus k_{48}k_{57}k_{72}k_{73} \oplus k_{48}k_{57}k_{64}\oplus$

$k_{48}k_{57}k_{58}k_{78}k_{79} \oplus k_{48}k_{57}k_{58}k_{72} \oplus k_{48}k_{57}k_{58}k_{70}k_{71} \oplus k_{48}k_{56}k_{78}k_{79}\oplus$

$k_{48}k_{56}k_{64} \oplus k_{48}k_{56}k_{57} \oplus k_{48}k_{55} \oplus k_{48}k_{55}k_{78}k_{79} \oplus k_{48}k_{55}k_{74} \oplus k_{48}k_{55}k_{73}\oplus$

$k_{48}k_{55}k_{72}k_{73} \oplus k_{48}k_{55}k_{71} \oplus k_{48}k_{55}k_{70}k_{71} \oplus k_{48}k_{55}k_{69}k_{70}\oplus$

$k_{48}k_{55}k_{69}k_{70}k_{72} \oplus k_{48}k_{55}k_{69}k_{70}k_{71} \oplus k_{48}k_{55}k_{58} \oplus k_{48}k_{55}k_{56}\oplus$

$k_{48}k_{55}k_{56}k_{57} \oplus k_{48}k_{54}k_{74} \oplus k_{48}k_{54}k_{73} \oplus k_{48}k_{54}k_{72} \oplus k_{48}k_{54}k_{72}k_{74}\oplus$

$k_{48}k_{54}k_{72}k_{73} \oplus k_{48}k_{54}k_{70}k_{71} \oplus k_{48}k_{54}k_{70}k_{71}k_{74} \oplus k_{48}k_{54}k_{70}k_{71}k_{73}\oplus$

$k_{48}k_{54}k_{70}k_{71}k_{72} \oplus k_{48}k_{54}k_{70}k_{71}k_{72}k_{73} \oplus k_{48}k_{54}k_{59} \oplus k_{48}k_{54}k_{57}k_{58}\oplus$

$k_{48}k_{54}k_{56} \oplus k_{48}k_{54}k_{55} \oplus k_{48}k_{53} \oplus k_{48}k_{53}k_{74} \oplus k_{48}k_{53}k_{73} \oplus k_{48}k_{53}k_{72}\oplus$

$k_{48}k_{53}k_{72}k_{74} \oplus k_{48}k_{53}k_{72}k_{73} \oplus k_{48}k_{53}k_{70}k_{71} \oplus k_{48}k_{53}k_{70}k_{71}k_{74}\oplus$

$k_{48}k_{53}k_{70}k_{71}k_{73} \oplus k_{48}k_{53}k_{70}k_{71}k_{72} \oplus k_{48}k_{53}k_{70}k_{71}k_{72}k_{73} \oplus k_{48}k_{53}k_{59}\oplus$

$k_{48}k_{53}k_{57}k_{58} \oplus k_{48}k_{53}k_{56} \oplus k_{48}k_{53}k_{55} \oplus k_{48}k_{52} \oplus k_{48}k_{51} \oplus k_{48}k_{50}\oplus$

$k_{48}k_{50}k_{74} \oplus k_{48}k_{50}k_{73} \oplus k_{48}k_{50}k_{72}k_{73} \oplus k_{48}k_{50}k_{71}k_{72} \oplus k_{48}k_{50}k_{64}\oplus$

$k_{48}k_{50}k_{60} \oplus k_{48}k_{50}k_{58} \oplus k_{48}k_{50}k_{58}k_{59} \oplus k_{48}k_{49}k_{79} \oplus k_{48}k_{49}k_{77}\oplus$

$k_{48}k_{49}k_{76}k_{77}k_{79} \oplus k_{48}k_{49}k_{76}k_{77}k_{78} \oplus k_{48}k_{49}k_{75} \oplus k_{48}k_{49}k_{75}k_{76}\oplus$

$k_{48}k_{49}k_{74} \oplus k_{48}k_{49}k_{74}k_{75} \oplus k_{48}k_{49}k_{73} \oplus k_{48}k_{49}k_{73}k_{76} \oplus k_{48}k_{49}k_{73}k_{75}\oplus$

$k_{48}k_{49}k_{73}k_{74}k_{75} \oplus k_{48}k_{49}k_{72} \oplus k_{48}k_{49}k_{72}k_{73}k_{75} \oplus k_{48}k_{49}k_{72}k_{73}k_{74}\oplus$

$k_{48}k_{49}k_{71}k_{72} \oplus k_{48}k_{49}k_{71}k_{72}k_{76} \oplus k_{48}k_{49}k_{71}k_{72}k_{75} \oplus k_{48}k_{49}k_{71}k_{72}k_{74}\oplus$

$k_{48}k_{49}k_{71}k_{72}k_{74}k_{75} \oplus k_{48}k_{49}k_{71}k_{72}k_{73} \oplus k_{48}k_{49}k_{71}k_{72}k_{73}k_{74}\oplus$

$k_{48}k_{49}k_{70}k_{71} \oplus k_{48}k_{49}k_{68}k_{79} \oplus k_{48}k_{49}k_{68}k_{77}k_{78} \oplus k_{48}k_{49}k_{67} \oplus k_{48}k_{49}k_{66}\oplus$

$k_{48}k_{49}k_{65} \oplus k_{48}k_{49}k_{64}k_{75} \oplus k_{48}k_{49}k_{64}k_{73}k_{74} \oplus k_{48}k_{49}k_{63} \oplus k_{48}k_{49}k_{63}k_{64}\oplus$

$k_{48}k_{49}k_{63}k_{64}k_{66} \oplus k_{48}k_{49}k_{63}k_{64}k_{65} \oplus k_{48}k_{49}k_{61}k_{73} \oplus k_{48}k_{49}k_{61}k_{71}k_{72}\oplus$

$k_{48}k_{49}k_{61}k_{62} \oplus k_{48}k_{49}k_{60} \oplus k_{48}k_{49}k_{60}k_{77} \oplus k_{48}k_{49}k_{60}k_{75}\oplus$

$k_{48}k_{49}k_{60}k_{75}k_{76} \oplus k_{48}k_{49}k_{60}k_{73}k_{74} \oplus k_{48}k_{49}k_{60}k_{64} \oplus k_{48}k_{49}k_{60}k_{61}\oplus$

$k_{48}k_{49}k_{59} \oplus k_{48}k_{49}k_{59}k_{60} \oplus k_{48}k_{49}k_{59}k_{60}k_{73} \oplus k_{48}k_{49}k_{59}k_{60}k_{71}k_{72}\oplus$

$k_{48}k_{49}k_{58}k_{75} \oplus k_{48}k_{49}k_{58}k_{73}k_{74} \oplus k_{48}k_{49}k_{58}k_{59} \oplus k_{48}k_{49}k_{58}k_{59}k_{75}\oplus$

$k_{48}k_{49}k_{58}k_{59}k_{73}k_{74} \oplus k_{48}k_{49}k_{55}k_{72} \oplus k_{48}k_{49}k_{55}k_{70}k_{71} \oplus k_{48}k_{49}k_{54}\oplus$

$k_{48}k_{49}k_{52}k_{78} \oplus k_{48}k_{49}k_{52}k_{76}k_{77} \oplus k_{48}k_{49}k_{52}k_{68} \oplus k_{48}k_{49}k_{51}k_{79}\oplus$

$k_{48}k_{49}k_{51}k_{77}k_{78} \oplus k_{48}k_{49}k_{51}k_{52} \oplus k_{48}k_{49}k_{50}k_{60} \oplus k_{48}k_{49}k_{50}k_{51} \oplus k_{47}k_{79}\oplus$

$k_{47}k_{76} \oplus k_{47}k_{76}k_{77}k_{79} \oplus k_{47}k_{76}k_{77}k_{78} \oplus k_{47}k_{75}k_{78}k_{79} \oplus k_{47}k_{75}k_{76}\oplus$

$k_{47}k_{73} \oplus k_{47}k_{73}k_{74}k_{78}k_{79} \oplus k_{47}k_{73}k_{74}k_{76} \oplus k_{47}k_{73}k_{74}k_{75} \oplus k_{47}k_{72}k_{78}k_{79}\oplus$

$k_{47}k_{72}k_{75}k_{78}k_{79} \oplus k_{47}k_{72}k_{73}k_{74}k_{78}k_{79} \oplus k_{47}k_{71} \oplus k_{47}k_{71}k_{72} \oplus k_{47}k_{70}\oplus$

$k_{47}k_{70}k_{71}k_{78}k_{79} \oplus k_{47}k_{70}k_{71}k_{75}k_{78}k_{79} \oplus k_{47}k_{70}k_{71}k_{73}k_{74}k_{78}k_{79}\oplus$

$k_{47}k_{69}k_{70} \oplus k_{47}k_{68}k_{79} \oplus k_{47}k_{68}k_{77}k_{78} \oplus k_{47}k_{68}k_{69} \oplus k_{47}k_{66} \oplus k_{47}k_{65}\oplus$

$k_{47}k_{64}k_{71} \oplus k_{47}k_{64}k_{69} \oplus k_{47}k_{64}k_{69}k_{70} \oplus k_{47}k_{64}k_{67}k_{68} \oplus k_{47}k_{63}\oplus$

$k_{47}k_{63}k_{64} \oplus k_{47}k_{63}k_{64}k_{66} \oplus k_{47}k_{63}k_{64}k_{65} \oplus k_{47}k_{61} \oplus k_{47}k_{61}k_{78}\oplus$

$k_{47}k_{61}k_{76}k_{77} \oplus k_{47}k_{61}k_{64}k_{69} \oplus k_{47}k_{61}k_{64}k_{67}k_{68} \oplus k_{47}k_{61}k_{62} \oplus k_{47}k_{60}k_{78}\oplus$

$k_{47}k_{60}k_{76}k_{77} \oplus k_{47}k_{60}k_{72} \oplus k_{47}k_{60}k_{70}k_{71} \oplus k_{47}k_{60}k_{66} \oplus k_{47}k_{60}k_{64}k_{65}\oplus$

$k_{47}k_{59} \oplus k_{47}k_{59}k_{72} \oplus k_{47}k_{59}k_{70}k_{71} \oplus k_{47}k_{59}k_{64} \oplus k_{47}k_{59}k_{60}k_{78}\oplus$

$k_{47}k_{59}k_{60}k_{76}k_{77} \oplus k_{47}k_{59}k_{60}k_{64}k_{69} \oplus k_{47}k_{59}k_{60}k_{64}k_{67}k_{68} \oplus k_{47}k_{58}k_{64}\oplus$

$k_{47}k_{58}k_{59}k_{72} \oplus k_{47}k_{58}k_{59}k_{70}k_{71} \oplus k_{47}k_{57} \oplus k_{47}k_{57}k_{75} \oplus k_{47}k_{57}k_{73}k_{74}\oplus$

$k_{47}k_{57}k_{61}k_{64} \oplus k_{47}k_{57}k_{59}k_{60}k_{64} \oplus k_{47}k_{57}k_{58} \oplus k_{47}k_{57}k_{58}k_{72}\oplus$

$k_{47}k_{57}k_{58}k_{70}k_{71} \oplus k_{47}k_{57}k_{58}k_{64} \oplus k_{47}k_{56}k_{78} \oplus k_{47}k_{56}k_{76}k_{77}\oplus$

$k_{47}k_{56}k_{61}k_{64} \oplus k_{47}k_{56}k_{59}k_{60}k_{64} \oplus k_{47}k_{56}k_{57} \oplus k_{47}k_{55} \oplus k_{47}k_{55}k_{75}\oplus$

$k_{47}k_{55}k_{73}k_{74} \oplus k_{47}k_{55}k_{61}k_{78} \oplus k_{47}k_{55}k_{61}k_{76}k_{77} \oplus k_{47}k_{55}k_{59}k_{60}k_{78}\oplus$

$k_{47}k_{55}k_{59}k_{60}k_{76}k_{77} \oplus k_{47}k_{55}k_{56}k_{64} \oplus k_{47}k_{55}k_{56}k_{61}k_{64}\oplus$

$k_{47}k_{55}k_{56}k_{59}k_{60}k_{64} \oplus k_{47}k_{54} \oplus k_{47}k_{54}k_{75} \oplus k_{47}k_{54}k_{73}k_{74} \oplus k_{47}k_{54}k_{72}\oplus$

$k_{47}k_{54}k_{72}k_{75} \oplus k_{47}k_{54}k_{72}k_{73}k_{74} \oplus k_{47}k_{54}k_{70}k_{71} \oplus k_{47}k_{54}k_{70}k_{71}k_{75}\oplus$

$k_{47}k_{54}k_{70}k_{71}k_{73}k_{74} \oplus k_{47}k_{53}k_{75} \oplus k_{47}k_{53}k_{73}k_{74} \oplus k_{47}k_{53}k_{72}\oplus$

$k_{47}k_{53}k_{72}k_{75} \oplus k_{47}k_{53}k_{72}k_{73}k_{74} \oplus k_{47}k_{53}k_{70}k_{71} \oplus k_{47}k_{53}k_{70}k_{71}k_{75}\oplus$

$k_{47}k_{53}k_{70}k_{71}k_{73}k_{74} \oplus k_{47}k_{52}k_{78} \oplus k_{47}k_{52}k_{76}k_{77} \oplus k_{47}k_{52}k_{68} \oplus k_{47}k_{51}k_{79}\oplus$

$k_{47}k_{51}k_{77}k_{78} \oplus k_{47}k_{51}k_{61} \oplus k_{47}k_{51}k_{60} \oplus k_{47}k_{51}k_{59}k_{60} \oplus k_{47}k_{51}k_{56}\oplus$

$k_{47}k_{51}k_{55}k_{61} \oplus k_{47}k_{51}k_{55}k_{59}k_{60} \oplus k_{47}k_{51}k_{52} \oplus k_{47}k_{50}k_{75} \oplus k_{47}k_{50}k_{73}\oplus$

$k_{47}k_{50}k_{73}k_{74} \oplus k_{47}k_{50}k_{71}k_{72} \oplus k_{47}k_{50}k_{51} \oplus k_{47}k_{49} \oplus k_{47}k_{49}k_{75}\oplus$

$k_{47}k_{49}k_{73}k_{74} \oplus k_{47}k_{49}k_{50} \oplus k_{47}k_{48}k_{79} \oplus k_{47}k_{48}k_{78} \oplus k_{47}k_{48}k_{78}k_{79}\oplus$

$k_{47}k_{48}k_{77} \oplus k_{47}k_{48}k_{76}k_{77} \oplus k_{47}k_{48}k_{76}k_{77}k_{79} \oplus k_{47}k_{48}k_{76}k_{77}k_{78}\oplus$

$k_{47}k_{48}k_{75}k_{76} \oplus k_{47}k_{48}k_{72}k_{76} \oplus k_{47}k_{48}k_{72}k_{75} \oplus k_{47}k_{48}k_{72}k_{74}k_{75}\oplus$

$k_{47}k_{48}k_{72}k_{73}k_{74} \oplus k_{47}k_{48}k_{70}k_{71}k_{76} \oplus k_{47}k_{48}k_{70}k_{71}k_{75}\oplus$

$k_{47}k_{48}k_{70}k_{71}k_{74}k_{75} \oplus k_{47}k_{48}k_{70}k_{71}k_{73}k_{74} \oplus k_{47}k_{48}k_{68}k_{79}\oplus$

$k_{47}k_{48}k_{68}k_{77}k_{78} \oplus k_{47}k_{48}k_{67} \oplus k_{47}k_{48}k_{66} \oplus k_{47}k_{48}k_{65} \oplus k_{47}k_{48}k_{64}\oplus$

$k_{47}k_{48}k_{63} \oplus k_{47}k_{48}k_{63}k_{64} \oplus k_{47}k_{48}k_{63}k_{64}k_{66} \oplus k_{47}k_{48}k_{63}k_{64}k_{65}\oplus$

$$k_{47}k_{48}k_{61}k_{62} \oplus k_{47}k_{48}k_{60}k_{77} \oplus k_{47}k_{48}k_{60}k_{75}k_{76} \oplus k_{47}k_{48}k_{60}k_{64}\oplus$$

$$k_{47}k_{48}k_{60}k_{61} \oplus k_{47}k_{48}k_{59} \oplus k_{47}k_{48}k_{59}k_{60} \oplus k_{47}k_{48}k_{58} \oplus k_{47}k_{48}k_{58}k_{59}\oplus$$

$$k_{47}k_{48}k_{57} \oplus k_{47}k_{48}k_{57}k_{58} \oplus k_{47}k_{48}k_{55}k_{72} \oplus k_{47}k_{48}k_{55}k_{72}k_{75}\oplus$$

$$k_{47}k_{48}k_{55}k_{72}k_{73}k_{74} \oplus k_{47}k_{48}k_{55}k_{70}k_{71} \oplus k_{47}k_{48}k_{55}k_{70}k_{71}k_{75}\oplus$$

$$k_{47}k_{48}k_{55}k_{70}k_{71}k_{73}k_{74} \oplus k_{47}k_{48}k_{54}k_{72} \oplus k_{47}k_{48}k_{54}k_{70}k_{71} \oplus k_{47}k_{48}k_{53}\oplus$$

$$k_{47}k_{48}k_{52}k_{78} \oplus k_{47}k_{48}k_{52}k_{76}k_{77} \oplus k_{47}k_{48}k_{52}k_{68} \oplus k_{47}k_{48}k_{51}\oplus$$

$$k_{47}k_{48}k_{51}k_{79} \oplus k_{47}k_{48}k_{51}k_{77}k_{78} \oplus k_{47}k_{48}k_{51}k_{52} \oplus k_{47}k_{48}k_{50}k_{76}\oplus$$

$$k_{47}k_{48}k_{50}k_{75} \oplus k_{47}k_{48}k_{50}k_{74} \oplus k_{47}k_{48}k_{50}k_{74}k_{75} \oplus k_{47}k_{48}k_{50}k_{73}k_{74}\oplus$$

$$k_{47}k_{48}k_{50}k_{72}k_{73} \oplus k_{47}k_{48}k_{50}k_{61} \oplus k_{47}k_{48}k_{50}k_{60} \oplus k_{47}k_{48}k_{50}k_{59}k_{60}\oplus$$

$$k_{47}k_{48}k_{50}k_{51} \oplus k_{47}k_{48}k_{49} \oplus k_{47}k_{48}k_{49}k_{76} \oplus k_{47}k_{48}k_{49}k_{74}\oplus$$

$$k_{47}k_{48}k_{49}k_{74}k_{75} \oplus k_{47}k_{48}k_{49}k_{73} \oplus k_{47}k_{48}k_{49}k_{72} \oplus k_{47}k_{48}k_{49}k_{72}k_{73}\oplus$$

$$k_{47}k_{48}k_{49}k_{71}k_{72} \oplus k_{47}k_{48}k_{49}k_{70}k_{71} \oplus k_{47}k_{48}k_{49}k_{61} \oplus k_{47}k_{48}k_{49}k_{59}k_{60}\oplus$$

$$k_{47}k_{48}k_{49}k_{50} \oplus k_{46}k_{78} \oplus k_{46}k_{78}k_{79} \oplus k_{46}k_{76}k_{77} \oplus k_{46}k_{75}k_{78}k_{79}\oplus$$

$$k_{46}k_{73}k_{74}k_{78}k_{79} \oplus k_{46}k_{72} \oplus k_{46}k_{72}k_{75}k_{78}k_{79} \oplus k_{46}k_{72}k_{73}k_{74}k_{78}k_{79}\oplus$$

$$k_{46}k_{71} \oplus k_{46}k_{70}k_{71} \oplus k_{46}k_{70}k_{71}k_{75}k_{78}k_{79} \oplus k_{46}k_{70}k_{71}k_{73}k_{74}k_{78}k_{79}\oplus$$

$$k_{46}k_{69} \oplus k_{46}k_{69}k_{70} \oplus k_{46}k_{67}k_{68} \oplus k_{46}k_{64}k_{72} \oplus k_{46}k_{64}k_{71} \oplus k_{46}k_{64}k_{70}k_{71}\oplus$$

$$k_{46}k_{64}k_{69}k_{72} \oplus k_{46}k_{64}k_{69}k_{70} \oplus k_{46}k_{64}k_{69}k_{70}k_{71} \oplus k_{46}k_{64}k_{67}k_{68}k_{72}\oplus$$

$$k_{46}k_{64}k_{67}k_{68}k_{70}k_{71} \oplus k_{46}k_{62} \oplus k_{46}k_{61}k_{78} \oplus k_{46}k_{61}k_{77} \oplus k_{46}k_{61}k_{76}\oplus$$

$$k_{46}k_{61}k_{74}k_{75} \oplus k_{46}k_{61}k_{74}k_{75}k_{77} \oplus k_{46}k_{61}k_{74}k_{75}k_{76} \oplus k_{46}k_{61}k_{64}\oplus$$

$$k_{46}k_{61}k_{64}k_{72} \oplus k_{46}k_{61}k_{64}k_{71} \oplus k_{46}k_{61}k_{64}k_{70}k_{71} \oplus k_{46}k_{61}k_{64}k_{69}\oplus$$

$$k_{46}k_{61}k_{64}k_{69}k_{72} \oplus k_{46}k_{61}k_{64}k_{69}k_{70} \oplus k_{46}k_{61}k_{64}k_{69}k_{70}k_{71}\oplus$$

$$k_{46}k_{61}k_{64}k_{67}k_{68} \oplus k_{46}k_{61}k_{64}k_{67}k_{68}k_{72} \oplus k_{46}k_{61}k_{64}k_{67}k_{68}k_{70}k_{71}\oplus$$

$$k_{46}k_{61}k_{63} \oplus k_{46}k_{61}k_{62} \oplus k_{46}k_{60} \oplus k_{46}k_{60}k_{71} \oplus k_{46}k_{60}k_{69}k_{70}\oplus$$

$$k_{46}k_{59}k_{64}k_{71} \oplus k_{46}k_{59}k_{64}k_{69}k_{70} \oplus k_{46}k_{59}k_{61}k_{64} \oplus k_{46}k_{59}k_{60}\oplus$$

$$k_{46}k_{59}k_{60}k_{78} \oplus k_{46}k_{59}k_{60}k_{77} \oplus k_{46}k_{59}k_{60}k_{76} \oplus k_{46}k_{59}k_{60}k_{74}k_{75}\oplus$$

$$k_{46}k_{59}k_{60}k_{74}k_{75}k_{77} \oplus k_{46}k_{59}k_{60}k_{74}k_{75}k_{76} \oplus k_{46}k_{59}k_{60}k_{64}\oplus$$

$$k_{46}k_{59}k_{60}k_{64}k_{72} \oplus k_{46}k_{59}k_{60}k_{64}k_{70}k_{71} \oplus k_{46}k_{59}k_{60}k_{64}k_{69}\oplus$$

$$k_{46}k_{59}k_{60}k_{64}k_{69}k_{72} \oplus k_{46}k_{59}k_{60}k_{64}k_{69}k_{70}k_{71} \oplus k_{46}k_{59}k_{60}k_{64}k_{67}k_{68}\oplus$$

$$k_{46}k_{59}k_{60}k_{64}k_{67}k_{68}k_{72} \oplus k_{46}k_{59}k_{60}k_{64}k_{67}k_{68}k_{70}k_{71} \oplus k_{46}k_{59}k_{60}k_{63}\oplus$$

$$k_{46}k_{59}k_{60}k_{61}k_{62} \oplus k_{46}k_{58}k_{64} \oplus k_{46}k_{58}k_{61}k_{64} \oplus k_{46}k_{58}k_{60} \oplus k_{46}k_{58}k_{59}\oplus$$

$$k_{46}k_{58}k_{59}k_{71} \oplus k_{46}k_{58}k_{59}k_{69}k_{70} \oplus k_{46}k_{58}k_{59}k_{64} \oplus k_{46}k_{58}k_{59}k_{64}k_{71}\oplus$$

$$k_{46}k_{58}k_{59}k_{64}k_{69}k_{70} \oplus k_{46}k_{58}k_{59}k_{61} \oplus k_{46}k_{58}k_{59}k_{60} \oplus k_{46}k_{57} \oplus k_{46}k_{57}k_{64}\oplus$$

$$k_{46}k_{57}k_{64}k_{72} \oplus k_{46}k_{57}k_{64}k_{70}k_{71} \oplus k_{46}k_{57}k_{61}k_{64}k_{72}\oplus$$

$$k_{46}k_{57}k_{61}k_{64}k_{70}k_{71} \oplus k_{46}k_{57}k_{60} \oplus k_{46}k_{57}k_{59}k_{64} \oplus k_{46}k_{57}k_{59}k_{60}k_{64}\oplus$$

$$k_{46}k_{57}k_{59}k_{60}k_{64}k_{72} \oplus k_{46}k_{57}k_{59}k_{60}k_{64}k_{70}k_{71} \oplus k_{46}k_{57}k_{58}\oplus$$

$$k_{46}k_{57}k_{58}k_{64}k_{71} \oplus k_{46}k_{57}k_{58}k_{64}k_{69}k_{70} \oplus k_{46}k_{57}k_{58}k_{61}k_{64}\oplus$$

$k_{46}k_{57}k_{58}k_{60} \oplus k_{46}k_{57}k_{58}k_{60}k_{64} \oplus k_{46}k_{57}k_{58}k_{60}k_{64}k_{71}\oplus$

$k_{46}k_{57}k_{58}k_{60}k_{64}k_{69}k_{70} \oplus k_{46}k_{57}k_{58}k_{59}k_{64}k_{71} \oplus k_{46}k_{57}k_{58}k_{59}k_{64}k_{69}k_{70}\oplus$

$k_{46}k_{57}k_{58}k_{59}k_{60}k_{64} \oplus k_{46}k_{56} \oplus k_{46}k_{56}k_{78}k_{79} \oplus k_{46}k_{56}k_{72} \oplus k_{46}k_{56}k_{70}k_{71}\oplus$

$k_{46}k_{56}k_{64}k_{72} \oplus k_{46}k_{56}k_{64}k_{70}k_{71} \oplus k_{46}k_{56}k_{61}k_{64} \oplus k_{46}k_{56}k_{61}k_{64}k_{72}\oplus$

$k_{46}k_{56}k_{61}k_{64}k_{70}k_{71} \oplus k_{46}k_{56}k_{59}k_{60}k_{64} \oplus k_{46}k_{56}k_{59}k_{60}k_{64}k_{72}\oplus$

$k_{46}k_{56}k_{59}k_{60}k_{64}k_{70}k_{71} \oplus k_{46}k_{55} \oplus k_{46}k_{55}k_{75} \oplus k_{46}k_{55}k_{73}k_{74}\oplus$

$k_{46}k_{55}k_{64}k_{72} \oplus k_{46}k_{55}k_{64}k_{70}k_{71} \oplus k_{46}k_{55}k_{61}k_{64} \oplus k_{46}k_{55}k_{61}k_{64}k_{72}\oplus$

$k_{46}k_{55}k_{61}k_{64}k_{70}k_{71} \oplus k_{46}k_{55}k_{59}k_{60}k_{64} \oplus k_{46}k_{55}k_{59}k_{60}k_{64}k_{72}\oplus$

$k_{46}k_{55}k_{59}k_{60}k_{64}k_{70}k_{71} \oplus k_{46}k_{55}k_{56} \oplus k_{46}k_{55}k_{56}k_{64}k_{72}\oplus$

$k_{46}k_{55}k_{56}k_{64}k_{70}k_{71} \oplus k_{46}k_{55}k_{56}k_{61}k_{64} \oplus k_{46}k_{55}k_{56}k_{61}k_{64}k_{72}\oplus$

$k_{46}k_{55}k_{56}k_{61}k_{64}k_{70}k_{71} \oplus k_{46}k_{55}k_{56}k_{59}k_{60}k_{64} \oplus k_{46}k_{55}k_{56}k_{59}k_{60}k_{64}k_{72}\oplus$

$k_{46}k_{55}k_{56}k_{59}k_{60}k_{64}k_{70}k_{71} \oplus k_{46}k_{54}k_{75} \oplus k_{46}k_{54}k_{73}k_{74} \oplus k_{46}k_{54}k_{72}k_{75}\oplus$

$k_{46}k_{54}k_{72}k_{73}k_{74} \oplus k_{46}k_{54}k_{70}k_{71}k_{75} \oplus k_{46}k_{54}k_{70}k_{71}k_{73}k_{74} \oplus k_{46}k_{54}k_{55}\oplus$

$k_{46}k_{54}k_{55}k_{78}k_{79} \oplus k_{46}k_{53} \oplus k_{46}k_{53}k_{75} \oplus k_{46}k_{53}k_{73}k_{74} \oplus k_{46}k_{53}k_{72}k_{75}\oplus$

$k_{46}k_{53}k_{72}k_{73}k_{74} \oplus k_{46}k_{53}k_{70}k_{71}k_{75} \oplus k_{46}k_{53}k_{70}k_{71}k_{73}k_{74} \oplus k_{46}k_{53}k_{56}\oplus$

$k_{46}k_{53}k_{54}k_{55} \oplus k_{46}k_{51}k_{61} \oplus k_{46}k_{51}k_{59}k_{60} \oplus k_{46}k_{50} \oplus k_{46}k_{50}k_{76}\oplus$

$k_{46}k_{50}k_{75} \oplus k_{46}k_{50}k_{74} \oplus k_{46}k_{50}k_{74}k_{75} \oplus k_{46}k_{50}k_{73}k_{74} \oplus k_{46}k_{50}k_{72}k_{73}\oplus$

$k_{46}k_{50}k_{61}k_{76} \oplus k_{46}k_{50}k_{61}k_{74}k_{75} \oplus k_{46}k_{50}k_{59}k_{60}k_{76}\oplus$

$k_{46}k_{50}k_{59}k_{60}k_{74}k_{75} \oplus k_{46}k_{49} \oplus k_{46}k_{49}k_{61} \oplus k_{46}k_{49}k_{61}k_{77}\oplus$

$k_{46}k_{49}k_{61}k_{75}k_{76} \oplus k_{46}k_{49}k_{59}k_{60} \oplus k_{46}k_{49}k_{59}k_{60}k_{77}\oplus$

$k_{46}k_{49}k_{59}k_{60}k_{75}k_{76} \oplus k_{46}k_{49}k_{50}k_{61} \oplus k_{46}k_{49}k_{50}k_{59}k_{60} \oplus k_{46}k_{48}k_{78}k_{79}\oplus$

$k_{46}k_{48}k_{74} \oplus k_{46}k_{48}k_{72}k_{78}k_{79} \oplus k_{46}k_{48}k_{72}k_{73} \oplus k_{46}k_{48}k_{70}k_{71}k_{78}k_{79}\oplus$

$k_{46}k_{48}k_{55} \oplus k_{46}k_{48}k_{54} \oplus k_{46}k_{48}k_{54}k_{72} \oplus k_{46}k_{48}k_{54}k_{70}k_{71} \oplus k_{46}k_{48}k_{53}\oplus$

$k_{46}k_{48}k_{53}k_{72} \oplus k_{46}k_{48}k_{53}k_{70}k_{71} \oplus k_{46}k_{48}k_{50} \oplus k_{46}k_{48}k_{49} \oplus k_{46}k_{48}k_{49}k_{76}\oplus$

$k_{46}k_{48}k_{49}k_{75} \oplus k_{46}k_{48}k_{49}k_{74} \oplus k_{46}k_{48}k_{49}k_{74}k_{75} \oplus k_{46}k_{48}k_{49}k_{73}k_{74}\oplus$

$k_{46}k_{48}k_{49}k_{72}k_{73} \oplus k_{46}k_{48}k_{49}k_{61} \oplus k_{46}k_{48}k_{49}k_{59}k_{60} \oplus k_{46}k_{47}k_{78}k_{79}\oplus$

$k_{46}k_{47}k_{75} \oplus k_{46}k_{47}k_{73} \oplus k_{46}k_{47}k_{72} \oplus k_{46}k_{47}k_{72}k_{73} \oplus k_{46}k_{47}k_{71}\oplus$

$k_{46}k_{47}k_{71}k_{72} \oplus k_{46}k_{47}k_{71}k_{72}k_{74} \oplus k_{46}k_{47}k_{71}k_{72}k_{73} \oplus k_{46}k_{47}k_{70}k_{71}\oplus$

$k_{46}k_{47}k_{69}k_{70} \oplus k_{46}k_{47}k_{62} \oplus k_{46}k_{47}k_{61} \oplus k_{46}k_{47}k_{60}k_{72} \oplus k_{46}k_{47}k_{60}k_{70}k_{71}\oplus$

$k_{46}k_{47}k_{60}k_{61} \oplus k_{46}k_{47}k_{59} \oplus k_{46}k_{47}k_{59}k_{72} \oplus k_{46}k_{47}k_{59}k_{70}k_{71}\oplus$

$k_{46}k_{47}k_{59}k_{60} \oplus k_{46}k_{47}k_{58} \oplus k_{46}k_{47}k_{58}k_{59}k_{72} \oplus k_{46}k_{47}k_{58}k_{59}k_{70}k_{71}\oplus$

$k_{46}k_{47}k_{57}k_{58} \oplus k_{46}k_{47}k_{57}k_{58}k_{72} \oplus k_{46}k_{47}k_{57}k_{58}k_{70}k_{71} \oplus k_{46}k_{47}k_{55}\oplus$

$k_{46}k_{47}k_{53} \oplus k_{46}k_{47}k_{50} \oplus k_{46}k_{47}k_{48} \oplus k_{46}k_{47}k_{48}k_{49} \oplus k_{45}k_{78}k_{79} \oplus k_{45}k_{77}\oplus$

$k_{45}k_{76} \oplus k_{45}k_{76}k_{78}k_{79} \oplus k_{45}k_{76}k_{77} \oplus k_{45}k_{75} \oplus k_{45}k_{75}k_{78}k_{79} \oplus k_{45}k_{74}\oplus$

$k_{45}k_{74}k_{78}k_{79} \oplus k_{45}k_{74}k_{75} \oplus k_{45}k_{74}k_{75}k_{77} \oplus k_{45}k_{74}k_{75}k_{76} \oplus k_{45}k_{73}\oplus$

$k_{45}k_{73}k_{75}k_{78}k_{79} \oplus k_{45}k_{73}k_{74} \oplus k_{45}k_{73}k_{74}k_{78}k_{79} \oplus k_{45}k_{72}k_{73}\oplus$

$$k_{45}k_{72}k_{73}k_{78}k_{79} \oplus k_{45}k_{72}k_{73}k_{75}k_{78}k_{79} \oplus k_{45}k_{72}k_{73}k_{74}k_{78}k_{79}\oplus$$

$$k_{45}k_{71}k_{75} \oplus k_{45}k_{71}k_{73}k_{74} \oplus k_{45}k_{71}k_{72} \oplus k_{45}k_{71}k_{72}k_{75}k_{78}k_{79}\oplus$$

$$k_{45}k_{71}k_{72}k_{73}k_{74}k_{78}k_{79} \oplus k_{45}k_{69}k_{70}k_{75} \oplus k_{45}k_{69}k_{70}k_{73}k_{74} \oplus k_{45}k_{64}\oplus$$

$$k_{45}k_{64}k_{73} \oplus k_{45}k_{64}k_{71}k_{72} \oplus k_{45}k_{64}k_{69}k_{73} \oplus k_{45}k_{64}k_{69}k_{71}k_{72}\oplus$$

$$k_{45}k_{64}k_{67}k_{68}k_{73} \oplus k_{45}k_{64}k_{67}k_{68}k_{71}k_{72} \oplus k_{45}k_{63} \oplus k_{45}k_{61}k_{78}k_{79}\oplus$$

$$k_{45}k_{61}k_{64} \oplus k_{45}k_{61}k_{64}k_{73} \oplus k_{45}k_{61}k_{64}k_{71}k_{72} \oplus k_{45}k_{61}k_{64}k_{69}\oplus$$

$$k_{45}k_{61}k_{64}k_{69}k_{73} \oplus k_{45}k_{61}k_{64}k_{69}k_{71}k_{72} \oplus k_{45}k_{61}k_{64}k_{67}k_{68}\oplus$$

$$k_{45}k_{61}k_{64}k_{67}k_{68}k_{73} \oplus k_{45}k_{61}k_{64}k_{67}k_{68}k_{71}k_{72} \oplus k_{45}k_{61}k_{62} \oplus k_{45}k_{60}\oplus$$

$$k_{45}k_{60}k_{69} \oplus k_{45}k_{60}k_{67}k_{68} \oplus k_{45}k_{60}k_{64} \oplus k_{45}k_{60}k_{64}k_{69} \oplus k_{45}k_{60}k_{64}k_{67}k_{68}\oplus$$

$$k_{45}k_{59}k_{71} \oplus k_{45}k_{59}k_{69}k_{70} \oplus k_{45}k_{59}k_{60}k_{78}k_{79} \oplus k_{45}k_{59}k_{60}k_{64}\oplus$$

$$k_{45}k_{59}k_{60}k_{64}k_{73} \oplus k_{45}k_{59}k_{60}k_{64}k_{71}k_{72} \oplus k_{45}k_{59}k_{60}k_{64}k_{69}\oplus$$

$$k_{45}k_{59}k_{60}k_{64}k_{69}k_{73} \oplus k_{45}k_{59}k_{60}k_{64}k_{69}k_{71}k_{72} \oplus k_{45}k_{59}k_{60}k_{64}k_{67}k_{68}\oplus$$

$$k_{45}k_{59}k_{60}k_{64}k_{67}k_{68}k_{73} \oplus k_{45}k_{59}k_{60}k_{64}k_{67}k_{68}k_{71}k_{72} \oplus k_{45}k_{58}k_{78}\oplus$$

$$k_{45}k_{58}k_{77} \oplus k_{45}k_{58}k_{76} \oplus k_{45}k_{58}k_{76}k_{78} \oplus k_{45}k_{58}k_{76}k_{77} \oplus k_{45}k_{58}k_{74}k_{75}\oplus$$

$$k_{45}k_{58}k_{74}k_{75}k_{78} \oplus k_{45}k_{58}k_{74}k_{75}k_{77} \oplus k_{45}k_{58}k_{74}k_{75}k_{76}\oplus$$

$$k_{45}k_{58}k_{74}k_{75}k_{76}k_{77} \oplus k_{45}k_{58}k_{63} \oplus k_{45}k_{58}k_{61}k_{62} \oplus k_{45}k_{58}k_{59}\oplus$$

$$k_{45}k_{58}k_{59}k_{69} \oplus k_{45}k_{58}k_{59}k_{67}k_{68} \oplus k_{45}k_{58}k_{59}k_{64} \oplus k_{45}k_{58}k_{59}k_{64}k_{69}\oplus$$

$$k_{45}k_{58}k_{59}k_{64}k_{67}k_{68} \oplus k_{45}k_{57}k_{64}k_{73} \oplus k_{45}k_{57}k_{64}k_{71}k_{72} \oplus k_{45}k_{57}k_{61}k_{64}\oplus$$

$$k_{45}k_{57}k_{61}k_{64}k_{73} \oplus k_{45}k_{57}k_{61}k_{64}k_{71}k_{72} \oplus k_{45}k_{57}k_{60} \oplus k_{45}k_{57}k_{60}k_{64}\oplus$$

$$k_{45}k_{57}k_{59}k_{60}k_{64} \oplus k_{45}k_{57}k_{59}k_{60}k_{64}k_{73} \oplus k_{45}k_{57}k_{59}k_{60}k_{64}k_{71}k_{72}\oplus$$

$$k_{45}k_{57}k_{58} \oplus k_{45}k_{57}k_{58}k_{59}k_{64} \oplus k_{45}k_{56} \oplus k_{45}k_{56}k_{78} \oplus k_{45}k_{56}k_{78}k_{79}\oplus$$

$$k_{45}k_{56}k_{77} \oplus k_{45}k_{56}k_{76} \oplus k_{45}k_{56}k_{76}k_{78} \oplus k_{45}k_{56}k_{76}k_{77} \oplus k_{45}k_{56}k_{74}k_{75}\oplus$$

$$k_{45}k_{56}k_{74}k_{75}k_{78} \oplus k_{45}k_{56}k_{74}k_{75}k_{77} \oplus k_{45}k_{56}k_{74}k_{75}k_{76}\oplus$$

$$k_{45}k_{56}k_{74}k_{75}k_{76}k_{77} \oplus k_{45}k_{56}k_{73} \oplus k_{45}k_{56}k_{71}k_{72} \oplus k_{45}k_{56}k_{64}k_{73}\oplus$$

$$k_{45}k_{56}k_{64}k_{71}k_{72} \oplus k_{45}k_{56}k_{63} \oplus k_{45}k_{56}k_{61}k_{64} \oplus k_{45}k_{56}k_{61}k_{64}k_{73}\oplus$$

$$k_{45}k_{56}k_{61}k_{64}k_{71}k_{72} \oplus k_{45}k_{56}k_{61}k_{62} \oplus k_{45}k_{56}k_{60} \oplus k_{45}k_{56}k_{60}k_{64}\oplus$$

$$k_{45}k_{56}k_{59}k_{60}k_{64} \oplus k_{45}k_{56}k_{59}k_{60}k_{64}k_{73} \oplus k_{45}k_{56}k_{59}k_{60}k_{64}k_{71}k_{72}\oplus$$

$$k_{45}k_{56}k_{58}k_{59} \oplus k_{45}k_{56}k_{58}k_{59}k_{64} \oplus k_{45}k_{55}k_{71}k_{75} \oplus k_{45}k_{55}k_{71}k_{73}k_{74}\oplus$$

$$k_{45}k_{55}k_{69}k_{70}k_{75} \oplus k_{45}k_{55}k_{69}k_{70}k_{73}k_{74} \oplus k_{45}k_{55}k_{64}k_{73}\oplus$$

$$k_{45}k_{55}k_{64}k_{71}k_{72} \oplus k_{45}k_{55}k_{61}k_{64} \oplus k_{45}k_{55}k_{61}k_{64}k_{73}\oplus$$

$$k_{45}k_{55}k_{61}k_{64}k_{71}k_{72} \oplus k_{45}k_{55}k_{60} \oplus k_{45}k_{55}k_{60}k_{64} \oplus k_{45}k_{55}k_{59}k_{60}k_{64}\oplus$$

$$k_{45}k_{55}k_{59}k_{60}k_{64}k_{73} \oplus k_{45}k_{55}k_{59}k_{60}k_{64}k_{71}k_{72} \oplus k_{45}k_{55}k_{58}k_{59}\oplus$$

$$k_{45}k_{55}k_{58}k_{59}k_{64} \oplus k_{45}k_{55}k_{56}k_{64}k_{73} \oplus k_{45}k_{55}k_{56}k_{64}k_{71}k_{72}\oplus$$

$$k_{45}k_{55}k_{56}k_{61}k_{64} \oplus k_{45}k_{55}k_{56}k_{61}k_{64}k_{73} \oplus k_{45}k_{55}k_{56}k_{61}k_{64}k_{71}k_{72}\oplus$$

$$k_{45}k_{55}k_{56}k_{60} \oplus k_{45}k_{55}k_{56}k_{60}k_{64} \oplus k_{45}k_{55}k_{56}k_{59}k_{60}k_{64}\oplus$$

$$k_{45}k_{55}k_{56}k_{59}k_{60}k_{64}k_{73} \oplus k_{45}k_{55}k_{56}k_{59}k_{60}k_{64}k_{71}k_{72} \oplus k_{45}k_{55}k_{56}k_{58}k_{59}\oplus$$

$k_{45}k_{55}k_{56}k_{58}k_{59}k_{64} \oplus k_{45}k_{54}k_{76} \oplus k_{45}k_{54}k_{75} \oplus k_{45}k_{54}k_{74} \oplus k_{45}k_{54}k_{73}k_{75} \oplus$

$k_{45}k_{54}k_{73}k_{74} \oplus k_{45}k_{54}k_{72}k_{73} \oplus k_{45}k_{54}k_{72}k_{73}k_{75} \oplus k_{45}k_{54}k_{72}k_{73}k_{74} \oplus$

$k_{45}k_{54}k_{71}k_{72}k_{75} \oplus k_{45}k_{54}k_{71}k_{72}k_{73}k_{74} \oplus k_{45}k_{54}k_{61} \oplus k_{45}k_{54}k_{59}k_{60} \oplus$

$k_{45}k_{54}k_{56} \oplus k_{45}k_{53} \oplus k_{45}k_{53}k_{76} \oplus k_{45}k_{53}k_{75} \oplus k_{45}k_{53}k_{74} \oplus k_{45}k_{53}k_{73}k_{75} \oplus$

$k_{45}k_{53}k_{73}k_{74} \oplus k_{45}k_{53}k_{72}k_{73} \oplus k_{45}k_{53}k_{72}k_{73}k_{75} \oplus k_{45}k_{53}k_{72}k_{73}k_{74} \oplus$

$k_{45}k_{53}k_{71}k_{72}k_{75} \oplus k_{45}k_{53}k_{71}k_{72}k_{73}k_{74} \oplus k_{45}k_{53}k_{61} \oplus k_{45}k_{53}k_{59}k_{60} \oplus$

$k_{45}k_{53}k_{56} \oplus k_{45}k_{51}k_{58} \oplus k_{45}k_{51}k_{58}k_{76} \oplus k_{45}k_{51}k_{58}k_{74}k_{75} \oplus k_{45}k_{51}k_{56} \oplus$

$k_{45}k_{51}k_{56}k_{76} \oplus k_{45}k_{51}k_{56}k_{74}k_{75} \oplus k_{45}k_{50} \oplus k_{45}k_{50}k_{76} \oplus k_{45}k_{50}k_{74}k_{75} \oplus$

$k_{45}k_{50}k_{58} \oplus k_{45}k_{50}k_{58}k_{76} \oplus k_{45}k_{50}k_{58}k_{74}k_{75} \oplus k_{45}k_{50}k_{56} \oplus k_{45}k_{50}k_{56}k_{76} \oplus$

$k_{45}k_{50}k_{56}k_{74}k_{75} \oplus k_{45}k_{49} \oplus k_{45}k_{49}k_{77} \oplus k_{45}k_{49}k_{76} \oplus k_{45}k_{49}k_{75} \oplus$

$k_{45}k_{49}k_{75}k_{76} \oplus k_{45}k_{49}k_{74}k_{75} \oplus k_{45}k_{49}k_{73}k_{74} \oplus k_{45}k_{49}k_{58} \oplus k_{45}k_{49}k_{58}k_{78} \oplus$

$k_{45}k_{49}k_{58}k_{77} \oplus k_{45}k_{49}k_{58}k_{76}k_{77} \oplus k_{45}k_{49}k_{58}k_{75}k_{76} \oplus k_{45}k_{49}k_{56} \oplus$

$k_{45}k_{49}k_{56}k_{78} \oplus k_{45}k_{49}k_{56}k_{77} \oplus k_{45}k_{49}k_{56}k_{76}k_{77} \oplus k_{45}k_{49}k_{56}k_{75}k_{76} \oplus$

$k_{45}k_{49}k_{55}k_{75} \oplus k_{45}k_{49}k_{55}k_{73}k_{74} \oplus k_{45}k_{49}k_{54} \oplus k_{45}k_{49}k_{51}k_{58} \oplus$

$k_{45}k_{49}k_{51}k_{56} \oplus k_{45}k_{49}k_{50} \oplus k_{45}k_{49}k_{50}k_{58} \oplus k_{45}k_{49}k_{50}k_{56} \oplus k_{45}k_{48}k_{78}k_{79} \oplus$

$k_{45}k_{48}k_{74}k_{78}k_{79} \oplus k_{45}k_{48}k_{73}k_{78}k_{79} \oplus k_{45}k_{48}k_{72}k_{73}k_{78}k_{79} \oplus k_{45}k_{48}k_{71} \oplus$

$k_{45}k_{48}k_{71}k_{72}k_{78}k_{79} \oplus k_{45}k_{48}k_{69}k_{70} \oplus k_{45}k_{48}k_{60} \oplus k_{45}k_{48}k_{59} \oplus$

$k_{45}k_{48}k_{58}k_{59} \oplus k_{45}k_{48}k_{57}k_{58} \oplus k_{45}k_{48}k_{55}k_{71} \oplus k_{45}k_{48}k_{55}k_{69}k_{70} \oplus$

$k_{45}k_{48}k_{54} \oplus k_{45}k_{48}k_{54}k_{74} \oplus k_{45}k_{48}k_{54}k_{73} \oplus k_{45}k_{48}k_{54}k_{72}k_{73} \oplus$

$k_{45}k_{48}k_{54}k_{71}k_{72} \oplus k_{45}k_{48}k_{53} \oplus k_{45}k_{48}k_{53}k_{74} \oplus k_{45}k_{48}k_{53}k_{73} \oplus$

$k_{45}k_{48}k_{53}k_{72}k_{73} \oplus k_{45}k_{48}k_{53}k_{71}k_{72} \oplus k_{45}k_{48}k_{49} \oplus k_{45}k_{48}k_{49}k_{55} \oplus$

$k_{45}k_{47}k_{78}k_{79} \oplus k_{45}k_{47}k_{75}k_{78}k_{79} \oplus k_{45}k_{47}k_{73}k_{74}k_{78}k_{79} \oplus k_{45}k_{47}k_{60} \oplus$

$k_{45}k_{47}k_{59} \oplus k_{45}k_{47}k_{58}k_{59} \oplus k_{45}k_{47}k_{57}k_{58} \oplus k_{45}k_{47}k_{54} \oplus k_{45}k_{47}k_{54}k_{75} \oplus$

$k_{45}k_{47}k_{54}k_{73}k_{74} \oplus k_{45}k_{47}k_{53} \oplus k_{45}k_{47}k_{53}k_{75} \oplus k_{45}k_{47}k_{53}k_{73}k_{74} \oplus$

$k_{45}k_{47}k_{48}k_{76} \oplus k_{45}k_{47}k_{48}k_{75} \oplus k_{45}k_{47}k_{48}k_{74}k_{75} \oplus k_{45}k_{47}k_{48}k_{73}k_{74} \oplus$

$k_{45}k_{47}k_{48}k_{55} \oplus k_{45}k_{47}k_{48}k_{55}k_{75} \oplus k_{45}k_{47}k_{48}k_{55}k_{73}k_{74} \oplus k_{45}k_{47}k_{48}k_{54} \oplus$

$k_{45}k_{47}k_{48}k_{49} \oplus k_{45}k_{46} \oplus k_{45}k_{46}k_{75}k_{78}k_{79} \oplus k_{45}k_{46}k_{73} \oplus$

$k_{45}k_{46}k_{73}k_{74}k_{78}k_{79} \oplus k_{45}k_{46}k_{72} \oplus k_{45}k_{46}k_{71}k_{72} \oplus k_{45}k_{46}k_{70}k_{71} \oplus$

$k_{45}k_{46}k_{64} \oplus k_{45}k_{46}k_{64}k_{71} \oplus k_{45}k_{46}k_{64}k_{69} \oplus k_{45}k_{46}k_{64}k_{69}k_{70} \oplus$

$k_{45}k_{46}k_{64}k_{67}k_{68} \oplus k_{45}k_{46}k_{61}k_{64} \oplus k_{45}k_{46}k_{61}k_{64}k_{69} \oplus$

$k_{45}k_{46}k_{61}k_{64}k_{67}k_{68} \oplus k_{45}k_{46}k_{60} \oplus k_{45}k_{46}k_{60}k_{72} \oplus k_{45}k_{46}k_{60}k_{70}k_{71} \oplus$

$k_{45}k_{46}k_{59} \oplus k_{45}k_{46}k_{59}k_{72} \oplus k_{45}k_{46}k_{59}k_{70}k_{71} \oplus k_{45}k_{46}k_{59}k_{64} \oplus$

$k_{45}k_{46}k_{59}k_{60}k_{64} \oplus k_{45}k_{46}k_{59}k_{60}k_{64}k_{69} \oplus k_{45}k_{46}k_{59}k_{60}k_{64}k_{67}k_{68} \oplus$

$k_{45}k_{46}k_{58}k_{64} \oplus k_{45}k_{46}k_{58}k_{59} \oplus k_{45}k_{46}k_{58}k_{59}k_{72} \oplus k_{45}k_{46}k_{58}k_{59}k_{70}k_{71} \oplus$

$k_{45}k_{46}k_{57}k_{61}k_{64} \oplus k_{45}k_{46}k_{57}k_{59}k_{60}k_{64} \oplus k_{45}k_{46}k_{57}k_{58} \oplus$

$k_{45}k_{46}k_{57}k_{58}k_{72} \oplus k_{45}k_{46}k_{57}k_{58}k_{70}k_{71} \oplus k_{45}k_{46}k_{57}k_{58}k_{64} \oplus k_{45}k_{46}k_{56} \oplus$

$$k_{45}k_{46}k_{56}k_{64} \oplus k_{45}k_{46}k_{56}k_{61}k_{64} \oplus k_{45}k_{46}k_{56}k_{59}k_{60}k_{64} \oplus k_{45}k_{46}k_{55}k_{64}\oplus$$

$$k_{45}k_{46}k_{55}k_{61}k_{64} \oplus k_{45}k_{46}k_{55}k_{59}k_{60}k_{64} \oplus k_{45}k_{46}k_{55}k_{56}k_{64}\oplus$$

$$k_{45}k_{46}k_{55}k_{56}k_{61}k_{64} \oplus k_{45}k_{46}k_{55}k_{56}k_{59}k_{60}k_{64} \oplus k_{45}k_{46}k_{54}k_{75}\oplus$$

$$k_{45}k_{46}k_{54}k_{73}k_{74} \oplus k_{45}k_{46}k_{53}k_{75} \oplus k_{45}k_{46}k_{53}k_{73}k_{74} \oplus k_{45}k_{46}k_{48}k_{78}k_{79}\oplus$$

$$k_{45}k_{46}k_{48}k_{54} \oplus k_{45}k_{46}k_{48}k_{53} \oplus k_{45}k_{46}k_{47} \oplus k_{45}k_{46}k_{47}k_{60} \oplus k_{45}k_{46}k_{47}k_{59}\oplus$$

$$k_{45}k_{46}k_{47}k_{58}k_{59} \oplus k_{45}k_{46}k_{47}k_{57}k_{58} \oplus k_{44}k_{73} \oplus k_{44}k_{72}k_{75} \oplus k_{44}k_{72}k_{73}k_{74}\oplus$$

$$k_{44}k_{71}k_{72} \oplus k_{44}k_{70}k_{71}k_{75} \oplus k_{44}k_{70}k_{71}k_{73}k_{74} \oplus k_{44}k_{69} \oplus k_{44}k_{67}k_{68}\oplus$$

$$k_{44}k_{64}k_{73} \oplus k_{44}k_{64}k_{71}k_{72} \oplus k_{44}k_{61} \oplus k_{44}k_{61}k_{64}k_{73} \oplus k_{44}k_{61}k_{64}k_{71}k_{72}\oplus$$

$$k_{44}k_{60} \oplus k_{44}k_{60}k_{73} \oplus k_{44}k_{60}k_{71}k_{72} \oplus k_{44}k_{60}k_{64} \oplus k_{44}k_{60}k_{64}k_{73}\oplus$$

$$k_{44}k_{60}k_{64}k_{71}k_{72} \oplus k_{44}k_{59} \oplus k_{44}k_{59}k_{72} \oplus k_{44}k_{59}k_{70}k_{71} \oplus k_{44}k_{59}k_{64}k_{73}\oplus$$

$$k_{44}k_{59}k_{64}k_{71}k_{72} \oplus k_{44}k_{59}k_{60} \oplus k_{44}k_{59}k_{60}k_{64} \oplus k_{44}k_{58}k_{59} \oplus k_{44}k_{58}k_{59}k_{73}\oplus$$

$$k_{44}k_{58}k_{59}k_{71}k_{72} \oplus k_{44}k_{57}k_{58}k_{64}k_{73} \oplus k_{44}k_{57}k_{58}k_{64}k_{71}k_{72}\oplus$$

$$k_{44}k_{57}k_{58}k_{60}k_{64} \oplus k_{44}k_{57}k_{58}k_{60}k_{64}k_{73} \oplus k_{44}k_{57}k_{58}k_{60}k_{64}k_{71}k_{72}\oplus$$

$$k_{44}k_{57}k_{58}k_{59}k_{64} \oplus k_{44}k_{57}k_{58}k_{59}k_{64}k_{73} \oplus k_{44}k_{57}k_{58}k_{59}k_{64}k_{71}k_{72}\oplus$$

$$k_{44}k_{55}k_{75} \oplus k_{44}k_{55}k_{73}k_{74} \oplus k_{44}k_{55}k_{72}k_{75} \oplus k_{44}k_{55}k_{72}k_{73}k_{74}\oplus$$

$$k_{44}k_{55}k_{70}k_{71}k_{75} \oplus k_{44}k_{55}k_{70}k_{71}k_{73}k_{74} \oplus k_{44}k_{51} \oplus k_{44}k_{50} \oplus k_{44}k_{49}\oplus$$

$$k_{44}k_{49}k_{50} \oplus k_{44}k_{48} \oplus k_{44}k_{48}k_{72} \oplus k_{44}k_{48}k_{70}k_{71} \oplus k_{44}k_{48}k_{55}\oplus$$

$$k_{44}k_{48}k_{55}k_{72} \oplus k_{44}k_{48}k_{55}k_{70}k_{71} \oplus k_{44}k_{48}k_{49} \oplus k_{44}k_{47}k_{64} \oplus k_{44}k_{47}k_{48}\oplus$$

$$k_{44}k_{46} \oplus k_{44}k_{46}k_{64} \oplus k_{44}k_{46}k_{61}k_{64} \oplus k_{44}k_{46}k_{60} \oplus k_{44}k_{46}k_{59}k_{64}\oplus$$

$$k_{44}k_{46}k_{58}k_{59} \oplus k_{44}k_{46}k_{58}k_{59}k_{64} \oplus k_{44}k_{46}k_{57}k_{58}k_{64}\oplus$$

$$k_{44}k_{46}k_{57}k_{58}k_{60}k_{64} \oplus k_{44}k_{46}k_{57}k_{58}k_{59}k_{64} \oplus k_{44}k_{46}k_{47} \oplus k_{44}k_{45}\oplus$$

$$k_{44}k_{45}k_{75} \oplus k_{44}k_{45}k_{73}k_{74} \oplus k_{44}k_{45}k_{60}k_{64} \oplus k_{44}k_{45}k_{60}k_{64}k_{71}\oplus$$

$$k_{44}k_{45}k_{60}k_{64}k_{69}k_{70} \oplus k_{44}k_{45}k_{59} \oplus k_{44}k_{45}k_{59}k_{60}k_{64} \oplus k_{44}k_{45}k_{58}k_{60}k_{64}\oplus$$

$$k_{44}k_{45}k_{58}k_{59}k_{64} \oplus k_{44}k_{45}k_{58}k_{59}k_{64}k_{71} \oplus k_{44}k_{45}k_{58}k_{59}k_{64}k_{69}k_{70}\oplus$$

$$k_{44}k_{45}k_{57}k_{60}k_{64} \oplus k_{44}k_{45}k_{57}k_{58}k_{60}k_{64} \oplus k_{44}k_{45}k_{55}k_{75}\oplus$$

$$k_{44}k_{45}k_{55}k_{73}k_{74} \oplus k_{44}k_{45}k_{48} \oplus k_{44}k_{45}k_{48}k_{55} \oplus k_{44}k_{45}k_{46}k_{64} \oplus k_{43}\oplus$$

$$k_{43}k_{74} \oplus k_{43}k_{72}k_{73} \oplus k_{43}k_{47} \oplus k_{42} \oplus k_{42}k_{75} \oplus k_{42}k_{73} \oplus k_{42}k_{73}k_{74}\oplus$$

$$k_{42}k_{72} \oplus k_{42}k_{71}k_{72} \oplus k_{42}k_{70}k_{71} \oplus k_{42}k_{64}k_{74} \oplus k_{42}k_{64}k_{71}k_{72}\oplus$$

$$k_{42}k_{64}k_{70}k_{71}k_{73} \oplus k_{42}k_{64}k_{70}k_{71}k_{72} \oplus k_{42}k_{63} \oplus k_{42}k_{62} \oplus k_{42}k_{61}k_{73}\oplus$$

$$k_{42}k_{61}k_{71}k_{72} \oplus k_{42}k_{61}k_{64} \oplus k_{42}k_{61}k_{64}k_{74} \oplus k_{42}k_{61}k_{64}k_{73} \oplus k_{42}k_{61}k_{64}k_{72}\oplus$$

$$k_{42}k_{61}k_{64}k_{70}k_{71} \oplus k_{42}k_{61}k_{64}k_{70}k_{71}k_{73} \oplus k_{42}k_{61}k_{64}k_{70}k_{71}k_{72} \oplus k_{42}k_{60}\oplus$$

$$k_{42}k_{60}k_{72} \oplus k_{42}k_{60}k_{70}k_{71} \oplus k_{42}k_{60}k_{64} \oplus k_{42}k_{60}k_{64}k_{72} \oplus k_{42}k_{60}k_{64}k_{70}k_{71}\oplus$$

$$k_{42}k_{59}k_{64} \oplus k_{42}k_{59}k_{61}k_{64} \oplus k_{42}k_{59}k_{60} \oplus k_{42}k_{59}k_{60}k_{73} \oplus k_{42}k_{59}k_{60}k_{71}k_{72}\oplus$$

$$k_{42}k_{59}k_{60}k_{64}k_{74} \oplus k_{42}k_{59}k_{60}k_{64}k_{73} \oplus k_{42}k_{59}k_{60}k_{64}k_{72}\oplus$$

$$k_{42}k_{59}k_{60}k_{64}k_{70}k_{71} \oplus k_{42}k_{59}k_{60}k_{64}k_{70}k_{71}k_{73} \oplus k_{42}k_{59}k_{60}k_{64}k_{70}k_{71}k_{72}\oplus$$

$$k_{42}k_{58}k_{72} \oplus k_{42}k_{58}k_{70}k_{71} \oplus k_{42}k_{58}k_{59} \oplus k_{42}k_{58}k_{59}k_{72} \oplus k_{42}k_{58}k_{59}k_{70}k_{71}\oplus$$

$$k_{42}k_{58}k_{59}k_{64} \oplus k_{42}k_{58}k_{59}k_{64}k_{72} \oplus k_{42}k_{58}k_{59}k_{64}k_{70}k_{71} \oplus k_{42}k_{57}k_{58}k_{64}\oplus$$
$$k_{42}k_{57}k_{58}k_{61}k_{64} \oplus k_{42}k_{57}k_{58}k_{59}k_{60}k_{64} \oplus k_{42}k_{56}k_{72} \oplus k_{42}k_{56}k_{70}k_{71}\oplus$$
$$k_{42}k_{48} \oplus k_{42}k_{47}k_{64} \oplus k_{42}k_{47}k_{61}k_{64} \oplus k_{42}k_{47}k_{59}k_{60}k_{64} \oplus k_{42}k_{46}\oplus$$
$$k_{42}k_{46}k_{64}k_{72} \oplus k_{42}k_{46}k_{64}k_{70}k_{71} \oplus k_{42}k_{46}k_{61} \oplus k_{42}k_{46}k_{61}k_{64}\oplus$$
$$k_{42}k_{46}k_{61}k_{64}k_{72} \oplus k_{42}k_{46}k_{61}k_{64}k_{70}k_{71} \oplus k_{42}k_{46}k_{59}k_{60}\oplus$$
$$k_{42}k_{46}k_{59}k_{60}k_{64} \oplus k_{42}k_{46}k_{59}k_{60}k_{64}k_{72} \oplus k_{42}k_{46}k_{59}k_{60}k_{64}k_{70}k_{71}\oplus$$
$$k_{42}k_{45} \oplus k_{42}k_{45}k_{64}k_{73} \oplus k_{42}k_{45}k_{64}k_{71}k_{72} \oplus k_{42}k_{45}k_{61}k_{64}\oplus$$
$$k_{42}k_{45}k_{61}k_{64}k_{73} \oplus k_{42}k_{45}k_{61}k_{64}k_{71}k_{72} \oplus k_{42}k_{45}k_{60} \oplus k_{42}k_{45}k_{60}k_{64}\oplus$$
$$k_{42}k_{45}k_{59}k_{60}k_{64} \oplus k_{42}k_{45}k_{59}k_{60}k_{64}k_{73} \oplus k_{42}k_{45}k_{59}k_{60}k_{64}k_{71}k_{72}\oplus$$
$$k_{42}k_{45}k_{58} \oplus k_{42}k_{45}k_{58}k_{59} \oplus k_{42}k_{45}k_{58}k_{59}k_{64} \oplus k_{42}k_{45}k_{56} \oplus k_{42}k_{45}k_{46}k_{64}\oplus$$
$$k_{42}k_{45}k_{46}k_{61}k_{64} \oplus k_{42}k_{45}k_{46}k_{59}k_{60}k_{64} \oplus k_{42}k_{44} \oplus k_{42}k_{43}k_{69}\oplus$$
$$k_{42}k_{43}k_{67}k_{68} \oplus k_{41} \oplus k_{41}k_{64} \oplus k_{41}k_{61} \oplus k_{40} \oplus k_{40}k_{79} \oplus k_{40}k_{77}k_{78}\oplus$$
$$k_{40}k_{74} \oplus k_{40}k_{72}k_{78}k_{79} \oplus k_{40}k_{72}k_{73} \oplus k_{40}k_{70}k_{71}k_{78}k_{79} \oplus k_{40}k_{64} \oplus k_{40}k_{60}\oplus$$
$$k_{40}k_{54}k_{72} \oplus k_{40}k_{54}k_{70}k_{71} \oplus k_{40}k_{53}k_{72} \oplus k_{40}k_{53}k_{70}k_{71} \oplus k_{40}k_{52} \oplus k_{40}k_{51}\oplus$$
$$k_{40}k_{50} \oplus k_{40}k_{49} \oplus k_{40}k_{49}k_{50} \oplus k_{40}k_{48}k_{49} \oplus k_{40}k_{47} \oplus k_{40}k_{47}k_{48}\oplus$$
$$k_{40}k_{45}k_{78}k_{79} \oplus k_{40}k_{45}k_{54} \oplus k_{40}k_{45}k_{53} \oplus k_{39} \oplus k_{39}k_{79} \oplus k_{39}k_{78} \oplus k_{39}k_{77}\oplus$$
$$k_{39}k_{77}k_{78} \oplus k_{39}k_{76}k_{77} \oplus k_{39}k_{75}k_{76} \oplus k_{39}k_{74} \oplus k_{39}k_{72}k_{73} \oplus k_{39}k_{65}k_{79}\oplus$$
$$k_{39}k_{65}k_{77}k_{78} \oplus k_{39}k_{65}k_{74} \oplus k_{39}k_{65}k_{72}k_{73} \oplus k_{39}k_{64}k_{65} \oplus k_{39}k_{63}k_{64}k_{79}\oplus$$
$$k_{39}k_{63}k_{64}k_{77}k_{78} \oplus k_{39}k_{63}k_{64}k_{74} \oplus k_{39}k_{63}k_{64}k_{72}k_{73} \oplus k_{39}k_{61}k_{62}k_{64}\oplus$$
$$k_{39}k_{60} \oplus k_{39}k_{60}k_{76} \oplus k_{39}k_{60}k_{74} \oplus k_{39}k_{60}k_{74}k_{75} \oplus k_{39}k_{60}k_{72}k_{73}\oplus$$
$$k_{39}k_{60}k_{65} \oplus k_{39}k_{60}k_{63}k_{64} \oplus k_{39}k_{58}k_{59} \oplus k_{39}k_{52} \oplus k_{39}k_{52}k_{65}\oplus$$
$$k_{39}k_{52}k_{63}k_{64} \oplus k_{39}k_{51}k_{65} \oplus k_{39}k_{51}k_{63}k_{64} \oplus k_{39}k_{50}k_{65} \oplus k_{39}k_{50}k_{63}k_{64}\oplus$$
$$k_{39}k_{49} \oplus k_{39}k_{49}k_{65} \oplus k_{39}k_{49}k_{63}k_{64} \oplus k_{39}k_{49}k_{60} \oplus k_{39}k_{49}k_{50}\oplus$$
$$k_{39}k_{49}k_{50}k_{65} \oplus k_{39}k_{49}k_{50}k_{63}k_{64} \oplus k_{39}k_{48}k_{49} \oplus k_{39}k_{48}k_{49}k_{65}\oplus$$
$$k_{39}k_{48}k_{49}k_{63}k_{64} \oplus k_{39}k_{47} \oplus k_{39}k_{47}k_{65} \oplus k_{39}k_{47}k_{63}k_{64} \oplus k_{39}k_{47}k_{60}\oplus$$
$$k_{39}k_{47}k_{48} \oplus k_{39}k_{47}k_{48}k_{65} \oplus k_{39}k_{47}k_{48}k_{63}k_{64} \oplus k_{39}k_{40}k_{64} \oplus k_{38}k_{79}\oplus$$
$$k_{38}k_{78}k_{79} \oplus k_{38}k_{77}k_{78} \oplus k_{38}k_{74} \oplus k_{38}k_{72}k_{73} \oplus k_{38}k_{66}k_{79} \oplus k_{38}k_{66}k_{77}k_{78}\oplus$$
$$k_{38}k_{66}k_{74} \oplus k_{38}k_{66}k_{72}k_{73} \oplus k_{38}k_{64} \oplus k_{38}k_{64}k_{66} \oplus k_{38}k_{64}k_{65}\oplus$$
$$k_{38}k_{64}k_{65}k_{79} \oplus k_{38}k_{64}k_{65}k_{77}k_{78} \oplus k_{38}k_{64}k_{65}k_{74} \oplus k_{38}k_{64}k_{65}k_{72}k_{73}\oplus$$
$$k_{38}k_{62} \oplus k_{38}k_{60}k_{66} \oplus k_{38}k_{60}k_{64}k_{65} \oplus k_{38}k_{60}k_{61} \oplus k_{38}k_{58} \oplus k_{38}k_{58}k_{59}\oplus$$
$$k_{38}k_{53} \oplus k_{38}k_{52} \oplus k_{38}k_{52}k_{66} \oplus k_{38}k_{52}k_{64}k_{65} \oplus k_{38}k_{51} \oplus k_{38}k_{51}k_{66}\oplus$$
$$k_{38}k_{51}k_{64}k_{65} \oplus k_{38}k_{50} \oplus k_{38}k_{50}k_{66} \oplus k_{38}k_{50}k_{64}k_{65} \oplus k_{38}k_{49} \oplus k_{38}k_{49}k_{66}\oplus$$
$$k_{38}k_{49}k_{64}k_{65} \oplus k_{38}k_{49}k_{50} \oplus k_{38}k_{49}k_{50}k_{66} \oplus k_{38}k_{49}k_{50}k_{64}k_{65} \oplus k_{38}k_{48}k_{49}\oplus$$
$$k_{38}k_{48}k_{49}k_{66} \oplus k_{38}k_{48}k_{49}k_{64}k_{65} \oplus k_{38}k_{47} \oplus k_{38}k_{47}k_{66} \oplus k_{38}k_{47}k_{64}k_{65}\oplus$$
$$k_{38}k_{47}k_{48} \oplus k_{38}k_{47}k_{48}k_{66} \oplus k_{38}k_{47}k_{48}k_{64}k_{65} \oplus k_{38}k_{39}k_{79} \oplus k_{38}k_{39}k_{77}k_{78}\oplus$$
$$k_{38}k_{39}k_{74} \oplus k_{38}k_{39}k_{72}k_{73} \oplus k_{38}k_{39}k_{64} \oplus k_{38}k_{39}k_{60} \oplus k_{38}k_{39}k_{52}\oplus$$

$k_{38}k_{39}k_{51} \oplus k_{38}k_{39}k_{50} \oplus k_{38}k_{39}k_{49} \oplus k_{38}k_{39}k_{49}k_{50} \oplus k_{38}k_{39}k_{48}k_{49} \oplus$

$k_{38}k_{39}k_{47} \oplus k_{38}k_{39}k_{47}k_{48} \oplus k_{37} \oplus k_{37}k_{52} \oplus k_{37}k_{50}k_{51} \oplus k_{36}k_{79} \oplus k_{36}k_{77} \oplus$

$k_{36}k_{76} \oplus k_{36}k_{76}k_{77}k_{79} \oplus k_{36}k_{76}k_{77}k_{78} \oplus k_{36}k_{75}k_{76} \oplus k_{36}k_{74}k_{75} \oplus k_{36}k_{73} \oplus$

$k_{36}k_{72} \oplus k_{36}k_{71}k_{72} \oplus k_{36}k_{70}k_{71} \oplus k_{36}k_{68} \oplus k_{36}k_{68}k_{79} \oplus k_{36}k_{68}k_{77}k_{78} \oplus$

$k_{36}k_{67} \oplus k_{36}k_{66} \oplus k_{36}k_{65} \oplus k_{36}k_{64} \oplus k_{36}k_{64}k_{66} \oplus k_{36}k_{64}k_{65} \oplus k_{36}k_{63} \oplus$

$k_{36}k_{63}k_{64} \oplus k_{36}k_{63}k_{64}k_{66} \oplus k_{36}k_{63}k_{64}k_{65} \oplus k_{36}k_{61} \oplus k_{36}k_{61}k_{73} \oplus$

$k_{36}k_{61}k_{71}k_{72} \oplus k_{36}k_{61}k_{62} \oplus k_{36}k_{60}k_{77} \oplus k_{36}k_{60}k_{75}k_{76} \oplus k_{36}k_{60}k_{64} \oplus$

$k_{36}k_{60}k_{61} \oplus k_{36}k_{59} \oplus k_{36}k_{59}k_{60}k_{73} \oplus k_{36}k_{59}k_{60}k_{71}k_{72} \oplus k_{36}k_{58}k_{72} \oplus$

$k_{36}k_{58}k_{70}k_{71} \oplus k_{36}k_{56}k_{72} \oplus k_{36}k_{56}k_{70}k_{71} \oplus k_{36}k_{54} \oplus k_{36}k_{52}k_{78} \oplus$

$k_{36}k_{52}k_{76}k_{77} \oplus k_{36}k_{52}k_{68} \oplus k_{36}k_{51}k_{79} \oplus k_{36}k_{51}k_{77}k_{78} \oplus k_{36}k_{51}k_{52} \oplus$

$k_{36}k_{50} \oplus k_{36}k_{50}k_{76} \oplus k_{36}k_{50}k_{75} \oplus k_{36}k_{50}k_{74} \oplus k_{36}k_{50}k_{74}k_{75} \oplus$

$k_{36}k_{50}k_{73}k_{74} \oplus k_{36}k_{50}k_{72}k_{73} \oplus k_{36}k_{50}k_{61} \oplus k_{36}k_{50}k_{60} \oplus k_{36}k_{50}k_{59}k_{60} \oplus$

$k_{36}k_{50}k_{51} \oplus k_{36}k_{49} \oplus k_{36}k_{49}k_{50} \oplus k_{36}k_{48}k_{50} \oplus k_{36}k_{48}k_{49}k_{76} \oplus$

$k_{36}k_{48}k_{49}k_{75} \oplus k_{36}k_{48}k_{49}k_{74} \oplus k_{36}k_{48}k_{49}k_{74}k_{75} \oplus k_{36}k_{48}k_{49}k_{73}k_{74} \oplus$

$k_{36}k_{48}k_{49}k_{72}k_{73} \oplus k_{36}k_{48}k_{49}k_{61} \oplus k_{36}k_{48}k_{49}k_{59}k_{60} \oplus k_{36}k_{47}k_{50} \oplus$

$k_{36}k_{47}k_{48}k_{49} \oplus k_{36}k_{46} \oplus k_{36}k_{46}k_{61} \oplus k_{36}k_{46}k_{59}k_{60} \oplus k_{36}k_{45} \oplus k_{36}k_{45}k_{58} \oplus$

$k_{36}k_{45}k_{56} \oplus k_{36}k_{44} \oplus k_{36}k_{40} \oplus k_{36}k_{39} \oplus k_{36}k_{39}k_{65} \oplus k_{36}k_{39}k_{64} \oplus$

$k_{36}k_{39}k_{63}k_{64} \oplus k_{36}k_{38} \oplus k_{36}k_{38}k_{66} \oplus k_{36}k_{38}k_{64}k_{65} \oplus k_{36}k_{38}k_{39} \oplus$

$k_{36}k_{37}k_{62} \oplus k_{36}k_{37}k_{60}k_{61} \oplus k_{35} \oplus k_{35}k_{76} \oplus k_{35}k_{75} \oplus k_{35}k_{74} \oplus k_{35}k_{74}k_{75} \oplus$

$k_{35}k_{73} \oplus k_{35}k_{73}k_{74} \oplus k_{35}k_{72}k_{73} \oplus k_{35}k_{71}k_{72} \oplus k_{35}k_{64} \oplus k_{35}k_{60} \oplus k_{35}k_{58} \oplus$

$k_{35}k_{57} \oplus k_{35}k_{53} \oplus k_{35}k_{52} \oplus k_{35}k_{51}k_{52} \oplus k_{35}k_{50}k_{51} \oplus k_{35}k_{49} \oplus k_{35}k_{47} \oplus$

$k_{35}k_{46} \oplus k_{35}k_{46}k_{47} \oplus k_{35}k_{38} \oplus k_{35}k_{36} \oplus k_{35}k_{36}k_{52} \oplus k_{35}k_{36}k_{50}k_{51} \oplus$

$k_{35}k_{36}k_{37} \oplus k_{34} \oplus k_{34}k_{76} \oplus k_{34}k_{76}k_{77} \oplus k_{34}k_{75} \oplus k_{34}k_{74} \oplus k_{34}k_{74}k_{78} \oplus$

$k_{34}k_{74}k_{76}k_{77} \oplus k_{34}k_{74}k_{75}k_{77} \oplus k_{34}k_{74}k_{75}k_{76} \oplus k_{34}k_{73} \oplus k_{34}k_{73}k_{78} \oplus$

$k_{34}k_{73}k_{77} \oplus k_{34}k_{73}k_{76} \oplus k_{34}k_{73}k_{74} \oplus k_{34}k_{73}k_{74}k_{76} \oplus k_{34}k_{73}k_{74}k_{75}k_{77} \oplus$

$k_{34}k_{73}k_{74}k_{75}k_{76} \oplus k_{34}k_{72}k_{78}k_{79} \oplus k_{34}k_{72}k_{73} \oplus k_{34}k_{72}k_{73}k_{78} \oplus$

$k_{34}k_{72}k_{73}k_{76}k_{77} \oplus k_{34}k_{71} \oplus k_{34}k_{71}k_{72} \oplus k_{34}k_{71}k_{72}k_{78} \oplus k_{34}k_{71}k_{72}k_{77} \oplus$

$k_{34}k_{71}k_{72}k_{76} \oplus k_{34}k_{71}k_{72}k_{74}k_{75} \oplus k_{34}k_{71}k_{72}k_{74}k_{75}k_{77} \oplus$

$k_{34}k_{71}k_{72}k_{74}k_{75}k_{76} \oplus k_{34}k_{70}k_{71}k_{78}k_{79} \oplus k_{34}k_{69}k_{70} \oplus k_{34}k_{64}k_{73} \oplus$

$k_{34}k_{64}k_{72} \oplus k_{34}k_{64}k_{72}k_{73} \oplus k_{34}k_{64}k_{71}k_{73} \oplus k_{34}k_{64}k_{71}k_{72} \oplus k_{34}k_{64}k_{70}k_{71} \oplus$

$k_{34}k_{64}k_{70}k_{71}k_{73} \oplus k_{34}k_{64}k_{70}k_{71}k_{72} \oplus k_{34}k_{64}k_{69} \oplus k_{34}k_{64}k_{69}k_{74} \oplus$

$k_{34}k_{64}k_{69}k_{73} \oplus k_{34}k_{64}k_{69}k_{72} \oplus k_{34}k_{64}k_{69}k_{70}k_{73} \oplus k_{34}k_{64}k_{69}k_{70}k_{71} \oplus$

$k_{34}k_{64}k_{69}k_{70}k_{71}k_{73} \oplus k_{34}k_{64}k_{67}k_{68} \oplus k_{34}k_{64}k_{67}k_{68}k_{74} \oplus$

$k_{34}k_{64}k_{67}k_{68}k_{73} \oplus k_{34}k_{64}k_{67}k_{68}k_{72} \oplus k_{34}k_{64}k_{67}k_{68}k_{70}k_{71} \oplus$

$k_{34}k_{64}k_{67}k_{68}k_{70}k_{71}k_{73} \oplus k_{34}k_{64}k_{67}k_{68}k_{70}k_{71}k_{72} \oplus k_{34}k_{63} \oplus k_{34}k_{63}k_{73} \oplus$

$k_{34}k_{63}k_{71}k_{72} \oplus k_{34}k_{61}k_{62} \oplus k_{34}k_{61}k_{62}k_{73} \oplus k_{34}k_{61}k_{62}k_{71}k_{72} \oplus k_{34}k_{60} \oplus$

$k_{34}k_{60}k_{73} \oplus k_{34}k_{60}k_{71}k_{72} \oplus k_{34}k_{59} \oplus k_{34}k_{59}k_{64}k_{73} \oplus k_{34}k_{59}k_{64}k_{71}k_{72}\oplus$

$k_{34}k_{59}k_{64}k_{69} \oplus k_{34}k_{59}k_{64}k_{67}k_{68} \oplus k_{34}k_{58} \oplus k_{34}k_{58}k_{64} \oplus k_{34}k_{58}k_{64}k_{73}\oplus$

$k_{34}k_{58}k_{64}k_{71}k_{72} \oplus k_{34}k_{58}k_{59} \oplus k_{34}k_{58}k_{59}k_{73} \oplus k_{34}k_{58}k_{59}k_{71}k_{72} \oplus k_{34}k_{57}\oplus$

$k_{34}k_{57}k_{64}k_{74} \oplus k_{34}k_{57}k_{64}k_{72} \oplus k_{34}k_{57}k_{64}k_{71}k_{72} \oplus k_{34}k_{57}k_{64}k_{70}k_{71}\oplus$

$k_{34}k_{57}k_{64}k_{70}k_{71}k_{73} \oplus k_{34}k_{57}k_{64}k_{70}k_{71}k_{72} \oplus k_{34}k_{57}k_{59}k_{64} \oplus k_{34}k_{57}k_{58}\oplus$

$k_{34}k_{57}k_{58}k_{64} \oplus k_{34}k_{57}k_{58}k_{64}k_{73} \oplus k_{34}k_{57}k_{58}k_{64}k_{71}k_{72}\oplus$

$k_{34}k_{57}k_{58}k_{64}k_{69} \oplus k_{34}k_{57}k_{58}k_{64}k_{67}k_{68} \oplus k_{34}k_{56} \oplus k_{34}k_{56}k_{64}k_{74}\oplus$

$k_{34}k_{56}k_{64}k_{73} \oplus k_{34}k_{56}k_{64}k_{72} \oplus k_{34}k_{56}k_{64}k_{70}k_{71} \oplus k_{34}k_{56}k_{64}k_{70}k_{71}k_{73}\oplus$

$k_{34}k_{56}k_{64}k_{70}k_{71}k_{72} \oplus k_{34}k_{56}k_{59}k_{64} \oplus k_{34}k_{56}k_{57}k_{58}k_{64} \oplus k_{34}k_{55}k_{78}\oplus$

$k_{34}k_{55}k_{76}k_{77} \oplus k_{34}k_{55}k_{74}k_{78} \oplus k_{34}k_{55}k_{74}k_{76}k_{77} \oplus k_{34}k_{55}k_{72}k_{73}k_{78}\oplus$

$k_{34}k_{55}k_{72}k_{73}k_{76}k_{77} \oplus k_{34}k_{55}k_{64} \oplus k_{34}k_{55}k_{64}k_{73} \oplus k_{34}k_{55}k_{64}k_{72}\oplus$

$k_{34}k_{55}k_{64}k_{72}k_{73} \oplus k_{34}k_{55}k_{64}k_{70}k_{71} \oplus k_{34}k_{55}k_{64}k_{70}k_{71}k_{73}\oplus$

$k_{34}k_{55}k_{64}k_{70}k_{71}k_{72} \oplus k_{34}k_{55}k_{59}k_{64} \oplus k_{34}k_{55}k_{57}k_{58}k_{64} \oplus k_{34}k_{55}k_{56}k_{64}\oplus$

$k_{34}k_{55}k_{56}k_{64}k_{74} \oplus k_{34}k_{55}k_{56}k_{64}k_{73} \oplus k_{34}k_{55}k_{56}k_{64}k_{72}\oplus$

$k_{34}k_{55}k_{56}k_{64}k_{70}k_{71} \oplus k_{34}k_{55}k_{56}k_{64}k_{70}k_{71}k_{73} \oplus k_{34}k_{55}k_{56}k_{64}k_{70}k_{71}k_{72}\oplus$

$k_{34}k_{55}k_{56}k_{59}k_{64} \oplus k_{34}k_{55}k_{56}k_{57}k_{58}k_{64} \oplus k_{34}k_{54}k_{72} \oplus k_{34}k_{54}k_{70}k_{71}\oplus$

$k_{34}k_{53}k_{72} \oplus k_{34}k_{53}k_{70}k_{71} \oplus k_{34}k_{51} \oplus k_{34}k_{51}k_{74} \oplus k_{34}k_{51}k_{73}\oplus$

$k_{34}k_{51}k_{72}k_{73} \oplus k_{34}k_{51}k_{71}k_{72} \oplus k_{34}k_{51}k_{55} \oplus k_{34}k_{51}k_{55}k_{74}\oplus$

$k_{34}k_{51}k_{55}k_{72}k_{73} \oplus k_{34}k_{50} \oplus k_{34}k_{50}k_{76} \oplus k_{34}k_{50}k_{74}k_{75} \oplus k_{34}k_{50}k_{73}k_{76}\oplus$

$k_{34}k_{50}k_{73}k_{74}k_{75} \oplus k_{34}k_{50}k_{71}k_{72}k_{76} \oplus k_{34}k_{50}k_{71}k_{72}k_{74}k_{75} \oplus k_{34}k_{49}k_{77}\oplus$

$k_{34}k_{49}k_{75} \oplus k_{34}k_{49}k_{75}k_{76} \oplus k_{34}k_{49}k_{73} \oplus k_{34}k_{49}k_{73}k_{77} \oplus k_{34}k_{49}k_{73}k_{75}k_{76}\oplus$

$k_{34}k_{49}k_{73}k_{74} \oplus k_{34}k_{49}k_{71}k_{72} \oplus k_{34}k_{49}k_{71}k_{72}k_{77} \oplus k_{34}k_{49}k_{71}k_{72}k_{75}k_{76}\oplus$

$k_{34}k_{49}k_{50} \oplus k_{34}k_{49}k_{50}k_{73} \oplus k_{34}k_{49}k_{50}k_{71}k_{72} \oplus k_{34}k_{48}k_{76} \oplus k_{34}k_{48}k_{74}k_{75}\oplus$

$k_{34}k_{48}k_{49} \oplus k_{34}k_{48}k_{49}k_{73} \oplus k_{34}k_{48}k_{49}k_{71}k_{72} \oplus k_{34}k_{47} \oplus k_{34}k_{47}k_{78}\oplus$

$k_{34}k_{47}k_{76}k_{77} \oplus k_{34}k_{47}k_{64}k_{69} \oplus k_{34}k_{47}k_{64}k_{67}k_{68} \oplus k_{34}k_{47}k_{57}k_{64}\oplus$

$k_{34}k_{47}k_{56}k_{64} \oplus k_{34}k_{47}k_{55}k_{78} \oplus k_{34}k_{47}k_{55}k_{76}k_{77} \oplus k_{34}k_{47}k_{55}k_{56}k_{64}\oplus$

$k_{34}k_{47}k_{51} \oplus k_{34}k_{47}k_{51}k_{55} \oplus k_{34}k_{47}k_{48} \oplus k_{34}k_{47}k_{48}k_{50} \oplus k_{34}k_{47}k_{48}k_{49}\oplus$

$k_{34}k_{46} \oplus k_{34}k_{46}k_{78} \oplus k_{34}k_{46}k_{77} \oplus k_{34}k_{46}k_{76} \oplus k_{34}k_{46}k_{74}k_{75}\oplus$

$k_{34}k_{46}k_{74}k_{75}k_{77} \oplus k_{34}k_{46}k_{74}k_{75}k_{76} \oplus k_{34}k_{46}k_{64} \oplus k_{34}k_{46}k_{64}k_{72}\oplus$

$k_{34}k_{46}k_{64}k_{71} \oplus k_{34}k_{46}k_{64}k_{70}k_{71} \oplus k_{34}k_{46}k_{64}k_{69} \oplus k_{34}k_{46}k_{64}k_{69}k_{72}\oplus$

$k_{34}k_{46}k_{64}k_{69}k_{70} \oplus k_{34}k_{46}k_{64}k_{69}k_{70}k_{71} \oplus k_{34}k_{46}k_{64}k_{67}k_{68}\oplus$

$k_{34}k_{46}k_{64}k_{67}k_{68}k_{72} \oplus k_{34}k_{46}k_{64}k_{67}k_{68}k_{70}k_{71} \oplus k_{34}k_{46}k_{63}\oplus$

$k_{34}k_{46}k_{61}k_{62} \oplus k_{34}k_{46}k_{60} \oplus k_{34}k_{46}k_{59}k_{64} \oplus k_{34}k_{46}k_{58}k_{64} \oplus k_{34}k_{46}k_{58}k_{59}\oplus$

$k_{34}k_{46}k_{57}k_{64}k_{72} \oplus k_{34}k_{46}k_{57}k_{64}k_{70}k_{71} \oplus k_{34}k_{46}k_{57}k_{58}k_{64}\oplus$

$k_{34}k_{46}k_{56}k_{64} \oplus k_{34}k_{46}k_{56}k_{64}k_{72} \oplus k_{34}k_{46}k_{56}k_{64}k_{70}k_{71} \oplus k_{34}k_{46}k_{55}k_{64}\oplus$

$k_{34}k_{46}k_{55}k_{64}k_{72} \oplus k_{34}k_{46}k_{55}k_{64}k_{70}k_{71} \oplus k_{34}k_{46}k_{55}k_{56}k_{64}\oplus$

$k_{34}k_{46}k_{55}k_{56}k_{64}k_{72} \oplus k_{34}k_{46}k_{55}k_{56}k_{64}k_{70}k_{71} \oplus k_{34}k_{46}k_{51}\oplus$

$k_{34}k_{46}k_{50}k_{76} \oplus k_{34}k_{46}k_{50}k_{74}k_{75} \oplus k_{34}k_{46}k_{49} \oplus k_{34}k_{46}k_{49}k_{77}\oplus$

$k_{34}k_{46}k_{49}k_{75}k_{76} \oplus k_{34}k_{46}k_{49}k_{50} \oplus k_{34}k_{46}k_{48}k_{49} \oplus k_{34}k_{46}k_{47}\oplus$

$k_{34}k_{45}k_{78}k_{79} \oplus k_{34}k_{45}k_{64} \oplus k_{34}k_{45}k_{64}k_{73} \oplus k_{34}k_{45}k_{64}k_{71}k_{72}\oplus$

$k_{34}k_{45}k_{64}k_{69} \oplus k_{34}k_{45}k_{64}k_{69}k_{73} \oplus k_{34}k_{45}k_{64}k_{69}k_{71}k_{72}\oplus$

$k_{34}k_{45}k_{64}k_{67}k_{68} \oplus k_{34}k_{45}k_{64}k_{67}k_{68}k_{73} \oplus k_{34}k_{45}k_{64}k_{67}k_{68}k_{71}k_{72}\oplus$

$k_{34}k_{45}k_{57}k_{64} \oplus k_{34}k_{45}k_{57}k_{64}k_{73} \oplus k_{34}k_{45}k_{57}k_{64}k_{71}k_{72} \oplus k_{34}k_{45}k_{56}k_{64}\oplus$

$k_{34}k_{45}k_{56}k_{64}k_{73} \oplus k_{34}k_{45}k_{56}k_{64}k_{71}k_{72} \oplus k_{34}k_{45}k_{55}k_{64}\oplus$

$k_{34}k_{45}k_{55}k_{64}k_{73} \oplus k_{34}k_{45}k_{55}k_{64}k_{71}k_{72} \oplus k_{34}k_{45}k_{55}k_{56}k_{64}\oplus$

$k_{34}k_{45}k_{55}k_{56}k_{64}k_{73} \oplus k_{34}k_{45}k_{55}k_{56}k_{64}k_{71}k_{72} \oplus k_{34}k_{45}k_{54} \oplus k_{34}k_{45}k_{53}\oplus$

$k_{34}k_{45}k_{46}k_{64} \oplus k_{34}k_{45}k_{46}k_{64}k_{69} \oplus k_{34}k_{45}k_{46}k_{64}k_{67}k_{68}\oplus$

$k_{34}k_{45}k_{46}k_{57}k_{64} \oplus k_{34}k_{45}k_{46}k_{56}k_{64} \oplus k_{34}k_{45}k_{46}k_{55}k_{64}\oplus$

$k_{34}k_{45}k_{46}k_{55}k_{56}k_{64} \oplus k_{34}k_{44} \oplus k_{34}k_{44}k_{64}k_{73} \oplus k_{34}k_{44}k_{64}k_{71}k_{72}\oplus$

$k_{34}k_{44}k_{46}k_{64} \oplus k_{34}k_{42} \oplus k_{34}k_{42}k_{73} \oplus k_{34}k_{42}k_{71}k_{72} \oplus k_{34}k_{42}k_{64}\oplus$

$k_{34}k_{42}k_{64}k_{74} \oplus k_{34}k_{42}k_{64}k_{73} \oplus k_{34}k_{42}k_{64}k_{72} \oplus k_{34}k_{42}k_{64}k_{70}k_{71}\oplus$

$k_{34}k_{42}k_{64}k_{70}k_{71}k_{73} \oplus k_{34}k_{42}k_{64}k_{70}k_{71}k_{72} \oplus k_{34}k_{42}k_{59}k_{64}\oplus$

$k_{34}k_{42}k_{57}k_{58}k_{64} \oplus k_{34}k_{42}k_{47}k_{64} \oplus k_{34}k_{42}k_{46} \oplus k_{34}k_{42}k_{46}k_{64}\oplus$

$k_{34}k_{42}k_{46}k_{64}k_{72} \oplus k_{34}k_{42}k_{46}k_{64}k_{70}k_{71} \oplus k_{34}k_{42}k_{45}k_{64}\oplus$

$k_{34}k_{42}k_{45}k_{64}k_{73} \oplus k_{34}k_{42}k_{45}k_{64}k_{71}k_{72} \oplus k_{34}k_{42}k_{45}k_{46}k_{64} \oplus k_{34}k_{36}k_{73}\oplus$

$k_{34}k_{36}k_{71}k_{72} \oplus k_{34}k_{36}k_{50} \oplus k_{34}k_{36}k_{48}k_{49} \oplus k_{34}k_{36}k_{46} \oplus k_{34}k_{35}\oplus$

$k_{34}k_{35}k_{79} \oplus k_{34}k_{35}k_{78} \oplus k_{34}k_{35}k_{77} \oplus k_{34}k_{35}k_{76} \oplus k_{34}k_{35}k_{76}k_{77}\oplus$

$k_{34}k_{35}k_{76}k_{77}k_{79} \oplus k_{34}k_{35}k_{76}k_{77}k_{78} \oplus k_{34}k_{35}k_{75}k_{76} \oplus k_{34}k_{35}k_{74}k_{75}\oplus$

$k_{34}k_{35}k_{73} \oplus k_{34}k_{35}k_{71}k_{72} \oplus k_{34}k_{35}k_{68}k_{79} \oplus k_{34}k_{35}k_{68}k_{77}k_{78} \oplus k_{34}k_{35}k_{67}\oplus$

$k_{34}k_{35}k_{66} \oplus k_{34}k_{35}k_{65} \oplus k_{34}k_{35}k_{64} \oplus k_{34}k_{35}k_{63} \oplus k_{34}k_{35}k_{63}k_{64}\oplus$

$k_{34}k_{35}k_{63}k_{64}k_{66} \oplus k_{34}k_{35}k_{63}k_{64}k_{65} \oplus k_{34}k_{35}k_{61}k_{62} \oplus k_{34}k_{35}k_{60}k_{77}\oplus$

$k_{34}k_{35}k_{60}k_{75}k_{76} \oplus k_{34}k_{35}k_{60}k_{64} \oplus k_{34}k_{35}k_{60}k_{61} \oplus k_{34}k_{35}k_{59}\oplus$

$k_{34}k_{35}k_{59}k_{60} \oplus k_{34}k_{35}k_{54} \oplus k_{34}k_{35}k_{52}k_{78} \oplus k_{34}k_{35}k_{52}k_{76}k_{77}\oplus$

$k_{34}k_{35}k_{52}k_{68} \oplus k_{34}k_{35}k_{51} \oplus k_{34}k_{35}k_{51}k_{79} \oplus k_{34}k_{35}k_{51}k_{77}k_{78}\oplus$

$k_{34}k_{35}k_{51}k_{52} \oplus k_{34}k_{35}k_{50}k_{76} \oplus k_{34}k_{35}k_{50}k_{75} \oplus k_{34}k_{35}k_{50}k_{74}\oplus$

$k_{34}k_{35}k_{50}k_{74}k_{75} \oplus k_{34}k_{35}k_{50}k_{73}k_{74} \oplus k_{34}k_{35}k_{50}k_{72}k_{73} \oplus k_{34}k_{35}k_{50}k_{61}\oplus$

$k_{34}k_{35}k_{50}k_{60} \oplus k_{34}k_{35}k_{50}k_{59}k_{60} \oplus k_{34}k_{35}k_{50}k_{51} \oplus k_{34}k_{35}k_{49}\oplus$

$k_{34}k_{35}k_{49}k_{50} \oplus k_{34}k_{35}k_{48}k_{50} \oplus k_{34}k_{35}k_{48}k_{49} \oplus k_{34}k_{35}k_{48}k_{49}k_{76}\oplus$

$k_{34}k_{35}k_{48}k_{49}k_{75} \oplus k_{34}k_{35}k_{48}k_{49}k_{74} \oplus k_{34}k_{35}k_{48}k_{49}k_{74}k_{75}\oplus$

$k_{34}k_{35}k_{48}k_{49}k_{73}k_{74} \oplus k_{34}k_{35}k_{48}k_{49}k_{72}k_{73} \oplus k_{34}k_{35}k_{48}k_{49}k_{61}\oplus$

$k_{34}k_{35}k_{48}k_{49}k_{59}k_{60} \oplus k_{34}k_{35}k_{47}k_{50} \oplus k_{34}k_{35}k_{47}k_{48}k_{49} \oplus k_{34}k_{35}k_{46}\oplus$

$k_{34}k_{35}k_{44} \oplus k_{34}k_{35}k_{40} \oplus k_{34}k_{35}k_{39} \oplus k_{34}k_{35}k_{39}k_{65} \oplus k_{34}k_{35}k_{39}k_{63}k_{64}\oplus$

$$k_{34}k_{35}k_{38} \oplus k_{34}k_{35}k_{38}k_{66} \oplus k_{34}k_{35}k_{38}k_{64}k_{65} \oplus k_{34}k_{35}k_{38}k_{39} \oplus k_{33} \oplus$$
$$k_{33}k_{75} \oplus k_{33}k_{73} \oplus k_{33}k_{73}k_{74} \oplus k_{33}k_{72} \oplus k_{33}k_{71} \oplus k_{33}k_{71}k_{73} \oplus k_{33}k_{70}k_{71} \oplus$$
$$k_{33}k_{69} \oplus k_{33}k_{69}k_{72} \oplus k_{33}k_{69}k_{70} \oplus k_{33}k_{69}k_{70}k_{73} \oplus k_{33}k_{69}k_{70}k_{71} \oplus$$
$$k_{33}k_{69}k_{70}k_{71}k_{72} \oplus k_{33}k_{67}k_{68} \oplus k_{33}k_{67}k_{68}k_{72} \oplus k_{33}k_{67}k_{68}k_{70}k_{71} \oplus k_{33}k_{66} \oplus$$
$$k_{33}k_{65} \oplus k_{33}k_{64} \oplus k_{33}k_{64}k_{72} \oplus k_{33}k_{64}k_{71} \oplus k_{33}k_{64}k_{71}k_{73} \oplus k_{33}k_{64}k_{71}k_{72} \oplus$$
$$k_{33}k_{64}k_{70}k_{71} \oplus k_{33}k_{64}k_{69} \oplus k_{33}k_{64}k_{69}k_{72} \oplus k_{33}k_{64}k_{69}k_{70} \oplus$$
$$k_{33}k_{64}k_{69}k_{70}k_{73} \oplus k_{33}k_{64}k_{69}k_{70}k_{71} \oplus k_{33}k_{64}k_{69}k_{70}k_{71}k_{72} \oplus$$
$$k_{33}k_{64}k_{67}k_{68} \oplus k_{33}k_{64}k_{67}k_{68}k_{72} \oplus k_{33}k_{64}k_{67}k_{68}k_{70}k_{71} \oplus k_{33}k_{64}k_{65} \oplus$$
$$k_{33}k_{63}k_{64} \oplus k_{33}k_{61} \oplus k_{33}k_{61}k_{73} \oplus k_{33}k_{61}k_{71}k_{72} \oplus k_{33}k_{59} \oplus k_{33}k_{59}k_{73} \oplus$$
$$k_{33}k_{59}k_{71}k_{72} \oplus k_{33}k_{59}k_{64} \oplus k_{33}k_{59}k_{64}k_{71} \oplus k_{33}k_{59}k_{64}k_{71}k_{73} \oplus$$
$$k_{33}k_{59}k_{64}k_{71}k_{72} \oplus k_{33}k_{59}k_{64}k_{69}k_{70} \oplus k_{33}k_{59}k_{64}k_{69}k_{70}k_{73} \oplus$$
$$k_{33}k_{59}k_{64}k_{69}k_{70}k_{71}k_{72} \oplus k_{33}k_{59}k_{60} \oplus k_{33}k_{59}k_{60}k_{73} \oplus k_{33}k_{59}k_{60}k_{71}k_{72} \oplus$$
$$k_{33}k_{58}k_{73} \oplus k_{33}k_{58}k_{71}k_{72} \oplus k_{33}k_{58}k_{64} \oplus k_{33}k_{58}k_{64}k_{73} \oplus k_{33}k_{58}k_{64}k_{71}k_{72} \oplus$$
$$k_{33}k_{58}k_{59}k_{64}k_{73} \oplus k_{33}k_{58}k_{59}k_{64}k_{71}k_{72} \oplus k_{33}k_{57} \oplus k_{33}k_{57}k_{73} \oplus k_{33}k_{57}k_{72} \oplus$$
$$k_{33}k_{57}k_{71}k_{72} \oplus k_{33}k_{57}k_{70}k_{71} \oplus k_{33}k_{57}k_{64}k_{73} \oplus k_{33}k_{57}k_{64}k_{72} \oplus$$
$$k_{33}k_{57}k_{64}k_{71}k_{72} \oplus k_{33}k_{57}k_{64}k_{70}k_{71} \oplus k_{33}k_{57}k_{59}k_{64}k_{73} \oplus$$
$$k_{33}k_{57}k_{59}k_{64}k_{71}k_{72} \oplus k_{33}k_{57}k_{58} \oplus k_{33}k_{57}k_{58}k_{73} \oplus k_{33}k_{57}k_{58}k_{71}k_{72} \oplus$$
$$k_{33}k_{57}k_{58}k_{64} \oplus k_{33}k_{57}k_{58}k_{64}k_{71} \oplus k_{33}k_{57}k_{58}k_{64}k_{71}k_{73} \oplus$$
$$k_{33}k_{57}k_{58}k_{64}k_{71}k_{72} \oplus k_{33}k_{57}k_{58}k_{64}k_{69}k_{70} \oplus k_{33}k_{57}k_{58}k_{64}k_{69}k_{70}k_{73} \oplus$$
$$k_{33}k_{57}k_{58}k_{64}k_{69}k_{70}k_{71}k_{72} \oplus k_{33}k_{56} \oplus k_{33}k_{56}k_{72} \oplus k_{33}k_{56}k_{70}k_{71} \oplus$$
$$k_{33}k_{56}k_{64} \oplus k_{33}k_{56}k_{64}k_{72} \oplus k_{33}k_{56}k_{64}k_{70}k_{71} \oplus k_{33}k_{55} \oplus k_{33}k_{55}k_{72} \oplus$$
$$k_{33}k_{55}k_{70}k_{71} \oplus k_{33}k_{55}k_{64} \oplus k_{33}k_{55}k_{64}k_{72} \oplus k_{33}k_{55}k_{64}k_{70}k_{71} \oplus k_{33}k_{55}k_{56} \oplus$$
$$k_{33}k_{55}k_{56}k_{72} \oplus k_{33}k_{55}k_{56}k_{70}k_{71} \oplus k_{33}k_{55}k_{56}k_{64} \oplus k_{33}k_{55}k_{56}k_{64}k_{72} \oplus$$
$$k_{33}k_{55}k_{56}k_{64}k_{70}k_{71} \oplus k_{33}k_{54}k_{57}k_{64} \oplus k_{33}k_{50}k_{75} \oplus k_{33}k_{50}k_{73}k_{74} \oplus k_{33}k_{48} \oplus$$
$$k_{33}k_{48}k_{72} \oplus k_{33}k_{48}k_{70}k_{71} \oplus k_{33}k_{48}k_{50} \oplus k_{33}k_{48}k_{49} \oplus k_{33}k_{48}k_{49}k_{75} \oplus$$
$$k_{33}k_{48}k_{49}k_{73}k_{74} \oplus k_{33}k_{47}k_{72} \oplus k_{33}k_{47}k_{70}k_{71} \oplus k_{33}k_{46} \oplus k_{33}k_{46}k_{71} \oplus$$
$$k_{33}k_{46}k_{69}k_{70} \oplus k_{33}k_{46}k_{61} \oplus k_{33}k_{46}k_{59} \oplus k_{33}k_{46}k_{59}k_{64} \oplus k_{33}k_{46}k_{59}k_{64}k_{71} \oplus$$
$$k_{33}k_{46}k_{59}k_{64}k_{69}k_{70} \oplus k_{33}k_{46}k_{59}k_{60} \oplus k_{33}k_{46}k_{58} \oplus k_{33}k_{46}k_{58}k_{59}k_{64} \oplus$$
$$k_{33}k_{46}k_{57} \oplus k_{33}k_{46}k_{57}k_{59}k_{64} \oplus k_{33}k_{46}k_{57}k_{58} \oplus k_{33}k_{46}k_{57}k_{58}k_{64} \oplus$$
$$k_{33}k_{46}k_{57}k_{58}k_{64}k_{71} \oplus k_{33}k_{46}k_{57}k_{58}k_{64}k_{69}k_{70} \oplus k_{33}k_{46}k_{47}k_{72} \oplus$$
$$k_{33}k_{46}k_{47}k_{70}k_{71} \oplus k_{33}k_{45} \oplus k_{33}k_{45}k_{69} \oplus k_{33}k_{45}k_{67}k_{68} \oplus k_{33}k_{45}k_{64} \oplus$$
$$k_{33}k_{45}k_{64}k_{69} \oplus k_{33}k_{45}k_{64}k_{67}k_{68} \oplus k_{33}k_{45}k_{57} \oplus k_{33}k_{45}k_{57}k_{64} \oplus k_{33}k_{45}k_{56} \oplus$$
$$k_{33}k_{45}k_{56}k_{64} \oplus k_{33}k_{45}k_{55} \oplus k_{33}k_{45}k_{55}k_{64} \oplus k_{33}k_{45}k_{55}k_{56} \oplus$$
$$k_{33}k_{45}k_{55}k_{56}k_{64} \oplus k_{33}k_{45}k_{48} \oplus k_{33}k_{45}k_{47} \oplus k_{33}k_{45}k_{46} \oplus k_{33}k_{45}k_{46}k_{72} \oplus$$
$$k_{33}k_{45}k_{46}k_{70}k_{71} \oplus k_{33}k_{45}k_{46}k_{47} \oplus k_{33}k_{44} \oplus k_{33}k_{44}k_{73} \oplus k_{33}k_{44}k_{71}k_{72} \oplus$$
$$k_{33}k_{44}k_{64} \oplus k_{33}k_{44}k_{64}k_{73} \oplus k_{33}k_{44}k_{64}k_{71}k_{72} \oplus k_{33}k_{44}k_{59}k_{64} \oplus$$

$$k_{33}k_{44}k_{59}k_{64}k_{73} \oplus k_{33}k_{44}k_{59}k_{64}k_{71}k_{72} \oplus k_{33}k_{44}k_{57}k_{58}k_{64} \oplus$$

$$k_{33}k_{44}k_{57}k_{58}k_{64}k_{73} \oplus k_{33}k_{44}k_{57}k_{58}k_{64}k_{71}k_{72} \oplus k_{33}k_{44}k_{46} \oplus$$

$$k_{33}k_{44}k_{46}k_{59}k_{64} \oplus k_{33}k_{44}k_{46}k_{57}k_{58}k_{64} \oplus k_{33}k_{44}k_{45}k_{64} \oplus$$

$$k_{33}k_{44}k_{45}k_{64}k_{71} \oplus k_{33}k_{44}k_{45}k_{64}k_{69}k_{70} \oplus k_{33}k_{44}k_{45}k_{59}k_{64} \oplus$$

$$k_{33}k_{44}k_{45}k_{58}k_{64} \oplus k_{33}k_{44}k_{45}k_{57}k_{64} \oplus k_{33}k_{44}k_{45}k_{57}k_{58}k_{64} \oplus k_{33}k_{42} \oplus$$

$$k_{33}k_{42}k_{72} \oplus k_{33}k_{42}k_{70}k_{71} \oplus k_{33}k_{42}k_{64} \oplus k_{33}k_{42}k_{64}k_{72} \oplus k_{33}k_{42}k_{64}k_{70}k_{71} \oplus$$

$$k_{33}k_{42}k_{45} \oplus k_{33}k_{42}k_{45}k_{64} \oplus k_{33}k_{39} \oplus k_{33}k_{38} \oplus k_{33}k_{34} \oplus k_{33}k_{34}k_{73} \oplus$$

$$k_{33}k_{34}k_{71}k_{72} \oplus k_{33}k_{34}k_{46} \oplus k_{32}k_{75}k_{78}k_{79} \oplus k_{32}k_{73}k_{74}k_{78}k_{79} \oplus$$

$$k_{32}k_{64}k_{71}k_{73} \oplus k_{32}k_{64}k_{71}k_{72} \oplus k_{32}k_{64}k_{69} \oplus k_{32}k_{64}k_{69}k_{70}k_{73} \oplus$$

$$k_{32}k_{64}k_{69}k_{70}k_{71}k_{72} \oplus k_{32}k_{64}k_{67}k_{68} \oplus k_{32}k_{61}k_{64} \oplus k_{32}k_{61}k_{64}k_{69} \oplus$$

$$k_{32}k_{61}k_{64}k_{67}k_{68} \oplus k_{32}k_{60} \oplus k_{32}k_{60}k_{64} \oplus k_{32}k_{60}k_{64}k_{71} \oplus k_{32}k_{60}k_{64}k_{71}k_{73} \oplus$$

$$k_{32}k_{60}k_{64}k_{71}k_{72} \oplus k_{32}k_{60}k_{64}k_{69}k_{70} \oplus k_{32}k_{60}k_{64}k_{69}k_{70}k_{73} \oplus$$

$$k_{32}k_{60}k_{64}k_{69}k_{70}k_{71}k_{72} \oplus k_{32}k_{59}k_{64} \oplus k_{32}k_{59}k_{64}k_{73} \oplus k_{32}k_{59}k_{64}k_{71}k_{72} \oplus$$

$$k_{32}k_{59}k_{60}k_{64} \oplus k_{32}k_{59}k_{60}k_{64}k_{73} \oplus k_{32}k_{59}k_{60}k_{64}k_{71}k_{72} \oplus$$

$$k_{32}k_{59}k_{60}k_{64}k_{69} \oplus k_{32}k_{59}k_{60}k_{64}k_{67}k_{68} \oplus k_{32}k_{58}k_{64} \oplus k_{32}k_{58}k_{64}k_{73} \oplus$$

$$k_{32}k_{58}k_{64}k_{71}k_{72} \oplus k_{32}k_{58}k_{60}k_{64}k_{73} \oplus k_{32}k_{58}k_{60}k_{64}k_{71}k_{72} \oplus k_{32}k_{58}k_{59} \oplus$$

$$k_{32}k_{58}k_{59}k_{64} \oplus k_{32}k_{58}k_{59}k_{64}k_{71} \oplus k_{32}k_{58}k_{59}k_{64}k_{71}k_{73} \oplus$$

$$k_{32}k_{58}k_{59}k_{64}k_{71}k_{72} \oplus k_{32}k_{58}k_{59}k_{64}k_{69}k_{70} \oplus k_{32}k_{58}k_{59}k_{64}k_{69}k_{70}k_{73} \oplus$$

$$k_{32}k_{58}k_{59}k_{64}k_{69}k_{70}k_{71}k_{72} \oplus k_{32}k_{57} \oplus k_{32}k_{57}k_{64}k_{73} \oplus k_{32}k_{57}k_{64}k_{71}k_{72} \oplus$$

$$k_{32}k_{57}k_{61}k_{64} \oplus k_{32}k_{57}k_{60}k_{64}k_{73} \oplus k_{32}k_{57}k_{60}k_{64}k_{71}k_{72} \oplus$$

$$k_{32}k_{57}k_{59}k_{60}k_{64} \oplus k_{32}k_{57}k_{58}k_{64} \oplus k_{32}k_{57}k_{58}k_{64}k_{73} \oplus$$

$$k_{32}k_{57}k_{58}k_{64}k_{71}k_{72} \oplus k_{32}k_{57}k_{58}k_{60}k_{64}k_{73} \oplus k_{32}k_{57}k_{58}k_{60}k_{64}k_{71}k_{72} \oplus$$

$$k_{32}k_{56} \oplus k_{32}k_{56}k_{64} \oplus k_{32}k_{56}k_{61}k_{64} \oplus k_{32}k_{56}k_{59}k_{60}k_{64} \oplus k_{32}k_{55}k_{64} \oplus$$

$$k_{32}k_{55}k_{61}k_{64} \oplus k_{32}k_{55}k_{59}k_{60}k_{64} \oplus k_{32}k_{55}k_{56}k_{64} \oplus k_{32}k_{55}k_{56}k_{61}k_{64} \oplus$$

$$k_{32}k_{55}k_{56}k_{59}k_{60}k_{64} \oplus k_{32}k_{54}k_{75} \oplus k_{32}k_{54}k_{73}k_{74} \oplus k_{32}k_{53}k_{75} \oplus$$

$$k_{32}k_{53}k_{73}k_{74} \oplus k_{32}k_{49}k_{58} \oplus k_{32}k_{48}k_{78}k_{79} \oplus k_{32}k_{48}k_{72} \oplus k_{32}k_{48}k_{70}k_{71} \oplus$$

$$k_{32}k_{48}k_{54} \oplus k_{32}k_{48}k_{53} \oplus k_{32}k_{47}k_{72} \oplus k_{32}k_{47}k_{70}k_{71} \oplus k_{32}k_{47}k_{48}k_{58} \oplus$$

$$k_{32}k_{46}k_{64}k_{71} \oplus k_{32}k_{46}k_{64}k_{69}k_{70} \oplus k_{32}k_{46}k_{60}k_{64}k_{71} \oplus$$

$$k_{32}k_{46}k_{60}k_{64}k_{69}k_{70} \oplus k_{32}k_{46}k_{59}k_{64} \oplus k_{32}k_{46}k_{59}k_{60}k_{64} \oplus k_{32}k_{46}k_{58}k_{64} \oplus$$

$$k_{32}k_{46}k_{58}k_{60}k_{64} \oplus k_{32}k_{46}k_{58}k_{59}k_{64}k_{71} \oplus k_{32}k_{46}k_{58}k_{59}k_{64}k_{69}k_{70} \oplus$$

$$k_{32}k_{46}k_{57}k_{64} \oplus k_{32}k_{46}k_{57}k_{60}k_{64} \oplus k_{32}k_{46}k_{57}k_{58}k_{64} \oplus$$

$$k_{32}k_{46}k_{57}k_{58}k_{60}k_{64} \oplus k_{32}k_{46}k_{47}k_{72} \oplus k_{32}k_{46}k_{47}k_{70}k_{71} \oplus k_{32}k_{45}k_{48} \oplus$$

$$k_{32}k_{45}k_{47} \oplus k_{32}k_{45}k_{46} \oplus k_{32}k_{45}k_{46}k_{72} \oplus k_{32}k_{45}k_{46}k_{70}k_{71} \oplus k_{32}k_{45}k_{46}k_{47} \oplus$$

$$k_{32}k_{44}k_{64}k_{73} \oplus k_{32}k_{44}k_{64}k_{71}k_{72} \oplus k_{32}k_{44}k_{60}k_{64} \oplus k_{32}k_{44}k_{60}k_{64}k_{73} \oplus$$

$$k_{32}k_{44}k_{60}k_{64}k_{71}k_{72} \oplus k_{32}k_{44}k_{58}k_{59}k_{64} \oplus k_{32}k_{44}k_{58}k_{59}k_{64}k_{73} \oplus$$

$$k_{32}k_{44}k_{58}k_{59}k_{64}k_{71}k_{72} \oplus k_{32}k_{44}k_{46}k_{64} \oplus k_{32}k_{44}k_{46}k_{60}k_{64} \oplus$$

$$k_{32}k_{44}k_{46}k_{58}k_{59}k_{64} \oplus k_{32}k_{42}k_{64} \oplus k_{32}k_{42}k_{61}k_{64} \oplus k_{32}k_{42}k_{59}k_{60}k_{64}\oplus$$

$$k_{32}k_{34}k_{64} \oplus k_{32}k_{34}k_{64}k_{69} \oplus k_{32}k_{34}k_{64}k_{67}k_{68} \oplus k_{32}k_{34}k_{57}k_{64}\oplus$$

$$k_{32}k_{34}k_{56}k_{64} \oplus k_{32}k_{34}k_{55}k_{64} \oplus k_{32}k_{34}k_{55}k_{56}k_{64} \oplus k_{32}k_{34}k_{42}k_{64} \oplus k_{32}k_{33}\oplus$$

$$k_{32}k_{33}k_{74} \oplus k_{32}k_{33}k_{72}k_{73} \oplus k_{32}k_{33}k_{64}k_{71} \oplus k_{32}k_{33}k_{64}k_{71}k_{73}\oplus$$

$$k_{32}k_{33}k_{64}k_{71}k_{72} \oplus k_{32}k_{33}k_{64}k_{69}k_{70} \oplus k_{32}k_{33}k_{64}k_{69}k_{70}k_{73}\oplus$$

$$k_{32}k_{33}k_{64}k_{69}k_{70}k_{71}k_{72} \oplus k_{32}k_{33}k_{59}k_{64}k_{73} \oplus k_{32}k_{33}k_{59}k_{64}k_{71}k_{72}\oplus$$

$$k_{32}k_{33}k_{58}k_{64}k_{73} \oplus k_{32}k_{33}k_{58}k_{64}k_{71}k_{72} \oplus k_{32}k_{33}k_{57}k_{64}k_{73}\oplus$$

$$k_{32}k_{33}k_{57}k_{64}k_{71}k_{72} \oplus k_{32}k_{33}k_{57}k_{58}k_{64}k_{73} \oplus k_{32}k_{33}k_{57}k_{58}k_{64}k_{71}k_{72}\oplus$$

$$k_{32}k_{33}k_{47} \oplus k_{32}k_{33}k_{46}k_{64}k_{71} \oplus k_{32}k_{33}k_{46}k_{64}k_{69}k_{70} \oplus k_{32}k_{33}k_{46}k_{59}k_{64}\oplus$$

$$k_{32}k_{33}k_{46}k_{58}k_{64} \oplus k_{32}k_{33}k_{46}k_{57}k_{64} \oplus k_{32}k_{33}k_{46}k_{57}k_{58}k_{64}\oplus$$

$$k_{32}k_{33}k_{44}k_{64} \oplus k_{32}k_{33}k_{44}k_{64}k_{73} \oplus k_{32}k_{33}k_{44}k_{64}k_{71}k_{72}\oplus$$

$$k_{32}k_{33}k_{44}k_{46}k_{64} \oplus k_{31}k_{79} \oplus k_{31}k_{77}k_{78} \oplus k_{31}k_{76} \oplus k_{31}k_{75} \oplus k_{31}k_{74}\oplus$$

$$k_{31}k_{74}k_{78} \oplus k_{31}k_{74}k_{76}k_{77} \oplus k_{31}k_{74}k_{75} \oplus k_{31}k_{73}k_{74} \oplus k_{31}k_{72}k_{73}\oplus$$

$$k_{31}k_{72}k_{73}k_{78} \oplus k_{31}k_{72}k_{73}k_{76}k_{77} \oplus k_{31}k_{64} \oplus k_{31}k_{61}k_{78} \oplus k_{31}k_{61}k_{76}k_{77}\oplus$$

$$k_{31}k_{60} \oplus k_{31}k_{59}k_{60}k_{78} \oplus k_{31}k_{59}k_{60}k_{76}k_{77} \oplus k_{31}k_{55}k_{75} \oplus k_{31}k_{55}k_{74}k_{78}\oplus$$

$$k_{31}k_{55}k_{74}k_{76}k_{77} \oplus k_{31}k_{55}k_{73}k_{74} \oplus k_{31}k_{55}k_{72}k_{73}k_{78}\oplus$$

$$k_{31}k_{55}k_{72}k_{73}k_{76}k_{77} \oplus k_{31}k_{55}k_{61}k_{78} \oplus k_{31}k_{55}k_{61}k_{76}k_{77}\oplus$$

$$k_{31}k_{55}k_{59}k_{60}k_{78} \oplus k_{31}k_{55}k_{59}k_{60}k_{76}k_{77} \oplus k_{31}k_{52} \oplus k_{31}k_{51} \oplus k_{31}k_{51}k_{74}\oplus$$

$$k_{31}k_{51}k_{72}k_{73} \oplus k_{31}k_{51}k_{61} \oplus k_{31}k_{51}k_{59}k_{60} \oplus k_{31}k_{51}k_{55}k_{74}\oplus$$

$$k_{31}k_{51}k_{55}k_{72}k_{73} \oplus k_{31}k_{51}k_{55}k_{61} \oplus k_{31}k_{51}k_{55}k_{59}k_{60} \oplus k_{31}k_{50} \oplus k_{31}k_{49}k_{50}\oplus$$

$$k_{31}k_{48} \oplus k_{31}k_{48}k_{55} \oplus k_{31}k_{48}k_{49} \oplus k_{31}k_{47} \oplus k_{31}k_{47}k_{78} \oplus k_{31}k_{47}k_{76}k_{77}\oplus$$

$$k_{31}k_{47}k_{55}k_{78} \oplus k_{31}k_{47}k_{55}k_{76}k_{77} \oplus k_{31}k_{47}k_{51} \oplus k_{31}k_{47}k_{51}k_{55} \oplus k_{31}k_{47}k_{48}\oplus$$

$$k_{31}k_{36} \oplus k_{31}k_{34}k_{78} \oplus k_{31}k_{34}k_{76}k_{77} \oplus k_{31}k_{34}k_{55}k_{78} \oplus k_{31}k_{34}k_{55}k_{76}k_{77}\oplus$$

$$k_{31}k_{34}k_{51} \oplus k_{31}k_{34}k_{51}k_{55} \oplus k_{31}k_{34}k_{35} \oplus k_{30} \oplus k_{30}k_{31}k_{57} \oplus k_{29}k_{73}\oplus$$

$$k_{29}k_{73}k_{78}k_{79} \oplus k_{29}k_{71}k_{72} \oplus k_{29}k_{71}k_{72}k_{78}k_{79} \oplus k_{29}k_{61} \oplus k_{29}k_{59}\oplus$$

$$k_{29}k_{59}k_{78}k_{79} \oplus k_{29}k_{53}k_{73} \oplus k_{29}k_{53}k_{71}k_{72} \oplus k_{29}k_{53}k_{59} \oplus k_{29}k_{46}\oplus$$

$$k_{29}k_{46}k_{78}k_{79} \oplus k_{29}k_{46}k_{53} \oplus k_{29}k_{30} \oplus k_{29}k_{30}k_{76} \oplus k_{29}k_{30}k_{74}k_{78}\oplus$$

$$k_{29}k_{30}k_{74}k_{76}k_{77} \oplus k_{29}k_{30}k_{74}k_{75} \oplus k_{29}k_{30}k_{72}k_{73}k_{78}\oplus$$

$$k_{29}k_{30}k_{72}k_{73}k_{76}k_{77} \oplus k_{29}k_{30}k_{61}k_{78} \oplus k_{29}k_{30}k_{61}k_{76}k_{77}\oplus$$

$$k_{29}k_{30}k_{59}k_{60}k_{78} \oplus k_{29}k_{30}k_{59}k_{60}k_{76}k_{77} \oplus k_{29}k_{30}k_{55}k_{74}k_{78}\oplus$$

$$k_{29}k_{30}k_{55}k_{74}k_{76}k_{77} \oplus k_{29}k_{30}k_{55}k_{72}k_{73}k_{78} \oplus k_{29}k_{30}k_{55}k_{72}k_{73}k_{76}k_{77}\oplus$$

$$k_{29}k_{30}k_{55}k_{61}k_{78} \oplus k_{29}k_{30}k_{55}k_{61}k_{76}k_{77} \oplus k_{29}k_{30}k_{55}k_{59}k_{60}k_{78}\oplus$$

$$k_{29}k_{30}k_{55}k_{59}k_{60}k_{76}k_{77} \oplus k_{29}k_{30}k_{51}k_{74} \oplus k_{29}k_{30}k_{51}k_{72}k_{73}\oplus$$

$$k_{29}k_{30}k_{51}k_{61} \oplus k_{29}k_{30}k_{51}k_{59}k_{60} \oplus k_{29}k_{30}k_{51}k_{55}k_{74}\oplus$$

$$k_{29}k_{30}k_{51}k_{55}k_{72}k_{73} \oplus k_{29}k_{30}k_{51}k_{55}k_{61} \oplus k_{29}k_{30}k_{51}k_{55}k_{59}k_{60}\oplus$$

$$k_{29}k_{30}k_{49} \oplus k_{29}k_{30}k_{47}k_{78} \oplus k_{29}k_{30}k_{47}k_{76}k_{77} \oplus k_{29}k_{30}k_{47}k_{55}k_{78}\oplus$$

$$k_{29}k_{30}k_{47}k_{55}k_{76}k_{77} \oplus k_{29}k_{30}k_{47}k_{51} \oplus k_{29}k_{30}k_{47}k_{51}k_{55} \oplus k_{29}k_{30}k_{34}k_{78}\oplus$$

$$k_{29}k_{30}k_{34}k_{76}k_{77} \oplus k_{29}k_{30}k_{34}k_{55}k_{78} \oplus k_{29}k_{30}k_{34}k_{55}k_{76}k_{77}\oplus$$

$$k_{29}k_{30}k_{34}k_{51} \oplus k_{29}k_{30}k_{34}k_{51}k_{55} \oplus k_{29}k_{30}k_{32} \oplus k_{29}k_{30}k_{31} \oplus k_{28}k_{60}\oplus$$

$$k_{28}k_{29} \oplus k_{26}k_{62} \oplus k_{26}k_{60}k_{61} \oplus k_{26}k_{35} \oplus k_{25} \oplus k_{25}k_{79} \oplus k_{25}k_{77}k_{78}\oplus$$

$$k_{25}k_{64} \oplus k_{25}k_{62} \oplus k_{25}k_{60} \oplus k_{25}k_{60}k_{61} \oplus k_{25}k_{59} \oplus k_{25}k_{55} \oplus k_{25}k_{52}\oplus$$

$$k_{25}k_{50} \oplus k_{25}k_{49} \oplus k_{25}k_{48}k_{49} \oplus k_{25}k_{47}k_{48} \oplus k_{25}k_{37} \oplus k_{25}k_{36} \oplus k_{25}k_{35}\oplus$$

$$k_{25}k_{35}k_{36} \oplus k_{25}k_{34}k_{35} \oplus k_{24} \oplus k_{24}k_{79} \oplus k_{24}k_{78} \oplus k_{24}k_{77} \oplus k_{24}k_{76}\oplus$$

$$k_{24}k_{76}k_{77} \oplus k_{24}k_{76}k_{77}k_{79} \oplus k_{24}k_{76}k_{77}k_{78} \oplus k_{24}k_{75}k_{76} \oplus k_{24}k_{74}k_{75}\oplus$$

$$k_{24}k_{73} \oplus k_{24}k_{71}k_{72} \oplus k_{24}k_{68}k_{79} \oplus k_{24}k_{68}k_{77}k_{78} \oplus k_{24}k_{67} \oplus k_{24}k_{66}\oplus$$

$$k_{24}k_{65} \oplus k_{24}k_{64} \oplus k_{24}k_{63} \oplus k_{24}k_{63}k_{64} \oplus k_{24}k_{63}k_{64}k_{66} \oplus k_{24}k_{63}k_{64}k_{65}\oplus$$

$$k_{24}k_{61}k_{62} \oplus k_{24}k_{60}k_{77} \oplus k_{24}k_{60}k_{75}k_{76} \oplus k_{24}k_{60}k_{64} \oplus k_{24}k_{60}k_{61} \oplus k_{24}k_{59}\oplus$$

$$k_{24}k_{59}k_{60} \oplus k_{24}k_{54} \oplus k_{24}k_{52} \oplus k_{24}k_{52}k_{78} \oplus k_{24}k_{52}k_{76}k_{77} \oplus k_{24}k_{52}k_{68}\oplus$$

$$k_{24}k_{51} \oplus k_{24}k_{51}k_{79} \oplus k_{24}k_{51}k_{77}k_{78} \oplus k_{24}k_{51}k_{52} \oplus k_{24}k_{50} \oplus k_{24}k_{50}k_{60}\oplus$$

$$k_{24}k_{49} \oplus k_{24}k_{46} \oplus k_{24}k_{44} \oplus k_{24}k_{40} \oplus k_{24}k_{39} \oplus k_{24}k_{39}k_{65} \oplus k_{24}k_{39}k_{63}k_{64}\oplus$$

$$k_{24}k_{38} \oplus k_{24}k_{38}k_{66} \oplus k_{24}k_{38}k_{64}k_{65} \oplus k_{24}k_{38}k_{39} \oplus k_{24}k_{34} \oplus k_{24}k_{31} \oplus k_{23}\oplus$$

$$k_{23}k_{79} \oplus k_{23}k_{77} \oplus k_{23}k_{76} \oplus k_{23}k_{76}k_{77}k_{79} \oplus k_{23}k_{76}k_{77}k_{78} \oplus k_{23}k_{75}k_{76}\oplus$$

$$k_{23}k_{73} \oplus k_{23}k_{73}k_{76} \oplus k_{23}k_{73}k_{75} \oplus k_{23}k_{73}k_{74} \oplus k_{23}k_{73}k_{74}k_{75} \oplus k_{23}k_{72}k_{73}\oplus$$

$$k_{23}k_{72}k_{73}k_{75} \oplus k_{23}k_{72}k_{73}k_{74} \oplus k_{23}k_{71}k_{72} \oplus k_{23}k_{71}k_{72}k_{76} \oplus k_{23}k_{71}k_{72}k_{75}\oplus$$

$$k_{23}k_{71}k_{72}k_{74} \oplus k_{23}k_{71}k_{72}k_{74}k_{75} \oplus k_{23}k_{71}k_{72}k_{73} \oplus k_{23}k_{71}k_{72}k_{73}k_{74}\oplus$$

$$k_{23}k_{68}k_{79} \oplus k_{23}k_{68}k_{77}k_{78} \oplus k_{23}k_{67} \oplus k_{23}k_{66} \oplus k_{23}k_{65} \oplus k_{23}k_{64}\oplus$$

$$k_{23}k_{64}k_{75} \oplus k_{23}k_{64}k_{73}k_{74} \oplus k_{23}k_{63} \oplus k_{23}k_{63}k_{64} \oplus k_{23}k_{63}k_{64}k_{66}\oplus$$

$$k_{23}k_{63}k_{64}k_{65} \oplus k_{23}k_{61} \oplus k_{23}k_{61}k_{73} \oplus k_{23}k_{61}k_{71}k_{72} \oplus k_{23}k_{61}k_{62}\oplus$$

$$k_{23}k_{60}k_{77} \oplus k_{23}k_{60}k_{75} \oplus k_{23}k_{60}k_{75}k_{76} \oplus k_{23}k_{60}k_{73}k_{74} \oplus k_{23}k_{60}k_{64}\oplus$$

$$k_{23}k_{60}k_{61} \oplus k_{23}k_{59} \oplus k_{23}k_{59}k_{60} \oplus k_{23}k_{59}k_{60}k_{73} \oplus k_{23}k_{59}k_{60}k_{71}k_{72}\oplus$$

$$k_{23}k_{58}k_{75} \oplus k_{23}k_{58}k_{73}k_{74} \oplus k_{23}k_{58}k_{59}k_{75} \oplus k_{23}k_{58}k_{59}k_{73}k_{74} \oplus k_{23}k_{54}\oplus$$

$$k_{23}k_{52}k_{78} \oplus k_{23}k_{52}k_{76}k_{77} \oplus k_{23}k_{52}k_{68} \oplus k_{23}k_{51}k_{79} \oplus k_{23}k_{51}k_{77}k_{78}\oplus$$

$$k_{23}k_{51}k_{52} \oplus k_{23}k_{50} \oplus k_{23}k_{50}k_{60} \oplus k_{23}k_{50}k_{51} \oplus k_{23}k_{49}k_{76} \oplus k_{23}k_{49}k_{75}\oplus$$

$$k_{23}k_{49}k_{74} \oplus k_{23}k_{49}k_{74}k_{75} \oplus k_{23}k_{49}k_{73} \oplus k_{23}k_{49}k_{73}k_{74} \oplus k_{23}k_{49}k_{72}k_{73}\oplus$$

$$k_{23}k_{49}k_{71}k_{72} \oplus k_{23}k_{49}k_{61} \oplus k_{23}k_{49}k_{59}k_{60} \oplus k_{23}k_{48}k_{74} \oplus k_{23}k_{48}k_{73}\oplus$$

$$k_{23}k_{48}k_{72}k_{73} \oplus k_{23}k_{48}k_{71}k_{72} \oplus k_{23}k_{48}k_{64} \oplus k_{23}k_{48}k_{60} \oplus k_{23}k_{48}k_{58}\oplus$$

$$k_{23}k_{48}k_{58}k_{59} \oplus k_{23}k_{48}k_{49} \oplus k_{23}k_{47}k_{75} \oplus k_{23}k_{47}k_{73} \oplus k_{23}k_{47}k_{73}k_{74}\oplus$$

$$k_{23}k_{47}k_{71}k_{72} \oplus k_{23}k_{47}k_{49} \oplus k_{23}k_{47}k_{48} \oplus k_{23}k_{47}k_{48}k_{76} \oplus k_{23}k_{47}k_{48}k_{75}\oplus$$

$$k_{23}k_{47}k_{48}k_{74} \oplus k_{23}k_{47}k_{48}k_{74}k_{75} \oplus k_{23}k_{47}k_{48}k_{73}k_{74} \oplus k_{23}k_{47}k_{48}k_{72}k_{73}\oplus$$

$$k_{23}k_{47}k_{48}k_{61} \oplus k_{23}k_{47}k_{48}k_{59}k_{60} \oplus k_{23}k_{47}k_{48}k_{49} \oplus k_{23}k_{46} \oplus k_{23}k_{46}k_{76}\oplus$$

$$k_{23}k_{46}k_{75} \oplus k_{23}k_{46}k_{74} \oplus k_{23}k_{46}k_{74}k_{75} \oplus k_{23}k_{46}k_{73}k_{74} \oplus k_{23}k_{46}k_{72}k_{73}\oplus$$

$$k_{23}k_{46}k_{61} \oplus k_{23}k_{46}k_{59}k_{60} \oplus k_{23}k_{46}k_{49} \oplus k_{23}k_{46}k_{48} \oplus k_{23}k_{46}k_{47} \oplus k_{23}k_{44}\oplus$$

$k_{23}k_{40} \oplus k_{23}k_{39} \oplus k_{23}k_{39}k_{65} \oplus k_{23}k_{39}k_{63}k_{64} \oplus k_{23}k_{38} \oplus k_{23}k_{38}k_{66} \oplus$

$k_{23}k_{38}k_{64}k_{65} \oplus k_{23}k_{38}k_{39} \oplus k_{23}k_{36}k_{76} \oplus k_{23}k_{36}k_{75} \oplus k_{23}k_{36}k_{74} \oplus$

$k_{23}k_{36}k_{74}k_{75} \oplus k_{23}k_{36}k_{73}k_{74} \oplus k_{23}k_{36}k_{72}k_{73} \oplus k_{23}k_{36}k_{61} \oplus k_{23}k_{36}k_{59}k_{60} \oplus$

$k_{23}k_{36}k_{49} \oplus k_{23}k_{36}k_{48} \oplus k_{23}k_{36}k_{47} \oplus k_{23}k_{34} \oplus k_{23}k_{34}k_{73} \oplus k_{23}k_{34}k_{71}k_{72} \oplus$

$k_{23}k_{34}k_{49} \oplus k_{23}k_{34}k_{47}k_{48} \oplus k_{23}k_{34}k_{46} \oplus k_{23}k_{34}k_{36} \oplus k_{23}k_{34}k_{35} \oplus$

$k_{23}k_{34}k_{35}k_{76} \oplus k_{23}k_{34}k_{35}k_{75} \oplus k_{23}k_{34}k_{35}k_{74} \oplus k_{23}k_{34}k_{35}k_{74}k_{75} \oplus$

$k_{23}k_{34}k_{35}k_{73}k_{74} \oplus k_{23}k_{34}k_{35}k_{72}k_{73} \oplus k_{23}k_{34}k_{35}k_{61} \oplus k_{23}k_{34}k_{35}k_{59}k_{60} \oplus$

$k_{23}k_{34}k_{35}k_{49} \oplus k_{23}k_{34}k_{35}k_{48} \oplus k_{23}k_{34}k_{35}k_{47} \oplus k_{23}k_{33}k_{75} \oplus k_{23}k_{33}k_{73}k_{74} \oplus$

$k_{23}k_{33}k_{48} \oplus k_{23}k_{31} \oplus k_{23}k_{25} \oplus k_{23}k_{24}k_{74} \oplus k_{23}k_{24}k_{72}k_{73} \oplus k_{23}k_{24}k_{59} \oplus$

$k_{23}k_{24}k_{55} \oplus k_{23}k_{24}k_{47} \oplus k_{22} \oplus k_{22}k_{79} \oplus k_{22}k_{78} \oplus k_{22}k_{77} \oplus k_{22}k_{76} \oplus$

$k_{22}k_{76}k_{77} \oplus k_{22}k_{76}k_{77}k_{79} \oplus k_{22}k_{76}k_{77}k_{78} \oplus k_{22}k_{75}k_{76} \oplus k_{22}k_{74}k_{75} \oplus$

$k_{22}k_{73} \oplus k_{22}k_{72} \oplus k_{22}k_{72}k_{78}k_{79} \oplus k_{22}k_{72}k_{76} \oplus k_{22}k_{72}k_{75} \oplus k_{22}k_{72}k_{74}k_{75} \oplus$

$k_{22}k_{72}k_{73}k_{74} \oplus k_{22}k_{71}k_{72} \oplus k_{22}k_{70}k_{71} \oplus k_{22}k_{70}k_{71}k_{78}k_{79} \oplus k_{22}k_{70}k_{71}k_{76} \oplus$

$k_{22}k_{70}k_{71}k_{75} \oplus k_{22}k_{70}k_{71}k_{74}k_{75} \oplus k_{22}k_{70}k_{71}k_{73}k_{74} \oplus k_{22}k_{68}k_{79} \oplus$

$k_{22}k_{68}k_{77}k_{78} \oplus k_{22}k_{67} \oplus k_{22}k_{66} \oplus k_{22}k_{65} \oplus k_{22}k_{64} \oplus k_{22}k_{63} \oplus k_{22}k_{63}k_{64} \oplus$

$k_{22}k_{63}k_{64}k_{66} \oplus k_{22}k_{63}k_{64}k_{65} \oplus k_{22}k_{61}k_{62} \oplus k_{22}k_{60}k_{77} \oplus k_{22}k_{60}k_{75}k_{76} \oplus$

$k_{22}k_{60}k_{64} \oplus k_{22}k_{60}k_{61} \oplus k_{22}k_{59} \oplus k_{22}k_{59}k_{60} \oplus k_{22}k_{58} \oplus k_{22}k_{58}k_{59} \oplus$

$k_{22}k_{57}k_{58} \oplus k_{22}k_{55} \oplus k_{22}k_{55}k_{72}k_{75} \oplus k_{22}k_{55}k_{72}k_{73}k_{74} \oplus k_{22}k_{55}k_{70}k_{71}k_{75} \oplus$

$k_{22}k_{55}k_{70}k_{71}k_{73}k_{74} \oplus k_{22}k_{54} \oplus k_{22}k_{53}k_{72} \oplus k_{22}k_{53}k_{70}k_{71} \oplus k_{22}k_{52}k_{78} \oplus$

$k_{22}k_{52}k_{76}k_{77} \oplus k_{22}k_{52}k_{68} \oplus k_{22}k_{51} \oplus k_{22}k_{51}k_{79} \oplus k_{22}k_{51}k_{77}k_{78} \oplus$

$k_{22}k_{51}k_{52} \oplus k_{22}k_{50} \oplus k_{22}k_{50}k_{76} \oplus k_{22}k_{50}k_{75} \oplus k_{22}k_{50}k_{74} \oplus k_{22}k_{50}k_{74}k_{75} \oplus$

$k_{22}k_{50}k_{73}k_{74} \oplus k_{22}k_{50}k_{72}k_{73} \oplus k_{22}k_{50}k_{61} \oplus k_{22}k_{50}k_{60} \oplus k_{22}k_{50}k_{59}k_{60} \oplus$

$k_{22}k_{50}k_{51} \oplus k_{22}k_{49} \oplus k_{22}k_{49}k_{72} \oplus k_{22}k_{49}k_{70}k_{71} \oplus k_{22}k_{49}k_{50} \oplus k_{22}k_{48}k_{72} \oplus$

$k_{22}k_{48}k_{70}k_{71} \oplus k_{22}k_{48}k_{55}k_{72} \oplus k_{22}k_{48}k_{55}k_{70}k_{71} \oplus k_{22}k_{48}k_{50} \oplus$

$k_{22}k_{48}k_{49}k_{76} \oplus k_{22}k_{48}k_{49}k_{75} \oplus k_{22}k_{48}k_{49}k_{74} \oplus k_{22}k_{48}k_{49}k_{74}k_{75} \oplus$

$k_{22}k_{48}k_{49}k_{73}k_{74} \oplus k_{22}k_{48}k_{49}k_{72}k_{73} \oplus k_{22}k_{48}k_{49}k_{61} \oplus k_{22}k_{48}k_{49}k_{59}k_{60} \oplus$

$k_{22}k_{47}k_{50} \oplus k_{22}k_{47}k_{48}k_{49} \oplus k_{22}k_{46} \oplus k_{22}k_{45} \oplus k_{22}k_{45}k_{78}k_{79} \oplus k_{22}k_{45}k_{76} \oplus$

$k_{22}k_{45}k_{75} \oplus k_{22}k_{45}k_{74}k_{75} \oplus k_{22}k_{45}k_{73}k_{74} \oplus k_{22}k_{45}k_{55}k_{75} \oplus$

$k_{22}k_{45}k_{55}k_{73}k_{74} \oplus k_{22}k_{45}k_{53} \oplus k_{22}k_{45}k_{49} \oplus k_{22}k_{45}k_{48} \oplus k_{22}k_{45}k_{48}k_{55} \oplus$

$k_{22}k_{42}k_{43} \oplus k_{22}k_{40} \oplus k_{22}k_{39} \oplus k_{22}k_{39}k_{65} \oplus k_{22}k_{39}k_{63}k_{64} \oplus k_{22}k_{38} \oplus$

$k_{22}k_{38}k_{66} \oplus k_{22}k_{38}k_{64}k_{65} \oplus k_{22}k_{38}k_{39} \oplus k_{22}k_{34} \oplus k_{22}k_{34}k_{50} \oplus$

$k_{22}k_{34}k_{48}k_{49} \oplus k_{22}k_{32}k_{58} \oplus k_{22}k_{31} \oplus k_{22}k_{25} \oplus k_{22}k_{23}k_{76} \oplus k_{22}k_{23}k_{75} \oplus$

$k_{22}k_{23}k_{74} \oplus k_{22}k_{23}k_{74}k_{75} \oplus k_{22}k_{23}k_{73}k_{74} \oplus k_{22}k_{23}k_{72}k_{73} \oplus k_{22}k_{23}k_{61} \oplus$

$k_{22}k_{23}k_{59}k_{60} \oplus k_{22}k_{23}k_{49} \oplus k_{22}k_{23}k_{48} \oplus k_{22}k_{23}k_{47} \oplus k_{22}k_{23}k_{34} \oplus k_{21} \oplus$

$k_{21}k_{78}k_{79} \oplus k_{21}k_{75} \oplus k_{21}k_{74} \oplus k_{21}k_{72} \oplus k_{21}k_{71} \oplus k_{21}k_{71}k_{72}k_{74} \oplus$

$k_{21}k_{71}k_{72}k_{73} \oplus k_{21}k_{70}k_{71} \oplus k_{21}k_{69}k_{70} \oplus k_{21}k_{62} \oplus k_{21}k_{61} \oplus k_{21}k_{60}k_{72} \oplus$

$$k_{21}k_{60}k_{70}k_{71} \oplus k_{21}k_{60}k_{61} \oplus k_{21}k_{59} \oplus k_{21}k_{59}k_{72} \oplus k_{21}k_{59}k_{70}k_{71} \oplus$$

$$k_{21}k_{59}k_{60} \oplus k_{21}k_{58} \oplus k_{21}k_{58}k_{59}k_{72} \oplus k_{21}k_{58}k_{59}k_{70}k_{71} \oplus k_{21}k_{57}k_{58} \oplus$$

$$k_{21}k_{57}k_{58}k_{72} \oplus k_{21}k_{57}k_{58}k_{70}k_{71} \oplus k_{21}k_{55} \oplus k_{21}k_{53} \oplus k_{21}k_{48} \oplus k_{21}k_{47} \oplus$$

$$k_{21}k_{47}k_{73} \oplus k_{21}k_{47}k_{71}k_{72} \oplus k_{21}k_{46}k_{74} \oplus k_{21}k_{46}k_{72}k_{73} \oplus k_{21}k_{46}k_{47} \oplus$$

$$k_{21}k_{45} \oplus k_{21}k_{45}k_{60} \oplus k_{21}k_{45}k_{59} \oplus k_{21}k_{45}k_{58}k_{59} \oplus k_{21}k_{45}k_{57}k_{58} \oplus k_{21}k_{44} \oplus$$

$$k_{21}k_{35} \oplus k_{21}k_{34} \oplus k_{21}k_{33}k_{72} \oplus k_{21}k_{33}k_{70}k_{71} \oplus k_{21}k_{33}k_{45} \oplus k_{21}k_{32}k_{72} \oplus$$

$$k_{21}k_{32}k_{70}k_{71} \oplus k_{21}k_{32}k_{45} \oplus k_{20}k_{73} \oplus k_{20}k_{72} \oplus k_{20}k_{71}k_{72} \oplus k_{20}k_{70}k_{71} \oplus$$

$$k_{20}k_{64}k_{71} \oplus k_{20}k_{64}k_{69}k_{70} \oplus k_{20}k_{60}k_{72} \oplus k_{20}k_{60}k_{70}k_{71} \oplus k_{20}k_{59}k_{72} \oplus$$

$$k_{20}k_{59}k_{70}k_{71} \oplus k_{20}k_{59}k_{64} \oplus k_{20}k_{58}k_{64} \oplus k_{20}k_{58}k_{59}k_{72} \oplus k_{20}k_{58}k_{59}k_{70}k_{71} \oplus$$

$$k_{20}k_{57}k_{64} \oplus k_{20}k_{57}k_{58}k_{72} \oplus k_{20}k_{57}k_{58}k_{70}k_{71} \oplus k_{20}k_{57}k_{58}k_{64} \oplus k_{20}k_{46} \oplus$$

$$k_{20}k_{45} \oplus k_{20}k_{45}k_{60} \oplus k_{20}k_{45}k_{59} \oplus k_{20}k_{45}k_{58}k_{59} \oplus k_{20}k_{45}k_{57}k_{58} \oplus$$

$$k_{20}k_{44}k_{64} \oplus k_{20}k_{33}k_{72} \oplus k_{20}k_{33}k_{70}k_{71} \oplus k_{20}k_{33}k_{45} \oplus k_{20}k_{32}k_{72} \oplus$$

$$k_{20}k_{32}k_{70}k_{71} \oplus k_{20}k_{32}k_{45} \oplus k_{19} \oplus k_{19}k_{60}k_{64}k_{71} \oplus k_{19}k_{60}k_{64}k_{69}k_{70} \oplus$$

$$k_{19}k_{59}k_{60}k_{64} \oplus k_{19}k_{58}k_{60}k_{64} \oplus k_{19}k_{58}k_{59}k_{64}k_{71} \oplus k_{19}k_{58}k_{59}k_{64}k_{69}k_{70} \oplus$$

$$k_{19}k_{57}k_{60}k_{64} \oplus k_{19}k_{57}k_{58}k_{60}k_{64} \oplus k_{19}k_{44}k_{60}k_{64} \oplus k_{19}k_{44}k_{58}k_{59}k_{64} \oplus$$

$$k_{19}k_{33}k_{64}k_{71} \oplus k_{19}k_{33}k_{64}k_{69}k_{70} \oplus k_{19}k_{33}k_{59}k_{64} \oplus k_{19}k_{33}k_{58}k_{64} \oplus$$

$$k_{19}k_{33}k_{57}k_{64} \oplus k_{19}k_{33}k_{57}k_{58}k_{64} \oplus k_{19}k_{33}k_{44}k_{64} \oplus k_{18}k_{61} \oplus k_{18}k_{61}k_{73} \oplus$$

$$k_{18}k_{61}k_{71}k_{72} \oplus k_{18}k_{60} \oplus k_{18}k_{59}k_{60} \oplus k_{18}k_{59}k_{60}k_{73} \oplus k_{18}k_{59}k_{60}k_{71}k_{72} \oplus$$

$$k_{18}k_{58}k_{59} \oplus k_{18}k_{46}k_{61} \oplus k_{18}k_{46}k_{59}k_{60} \oplus k_{18}k_{34} \oplus k_{18}k_{34}k_{73} \oplus$$

$$k_{18}k_{34}k_{71}k_{72} \oplus k_{18}k_{34}k_{46} \oplus k_{18}k_{33} \oplus k_{17}k_{74} \oplus k_{17}k_{73} \oplus k_{17}k_{72} \oplus$$

$$k_{17}k_{72}k_{73} \oplus k_{17}k_{71} \oplus k_{17}k_{69} \oplus k_{17}k_{69}k_{70} \oplus k_{17}k_{69}k_{70}k_{72} \oplus k_{17}k_{69}k_{70}k_{71} \oplus$$

$$k_{17}k_{67} \oplus k_{17}k_{67}k_{68} \oplus k_{17}k_{66} \oplus k_{17}k_{59} \oplus k_{17}k_{59}k_{72} \oplus k_{17}k_{59}k_{70}k_{71} \oplus$$

$$k_{17}k_{57}k_{58} \oplus k_{17}k_{57}k_{58}k_{72} \oplus k_{17}k_{57}k_{58}k_{70}k_{71} \oplus k_{17}k_{47} \oplus k_{17}k_{46} \oplus k_{17}k_{45} \oplus$$

$$k_{17}k_{45}k_{71} \oplus k_{17}k_{45}k_{69}k_{70} \oplus k_{17}k_{45}k_{59} \oplus k_{17}k_{45}k_{57}k_{58} \oplus k_{17}k_{44} \oplus$$

$$k_{17}k_{44}k_{72} \oplus k_{17}k_{44}k_{70}k_{71} \oplus k_{17}k_{44}k_{45} \oplus k_{17}k_{42} \oplus k_{17}k_{25} \oplus k_{17}k_{23}k_{24} \oplus$$

$$k_{17}k_{22} \oplus k_{16} \oplus k_{16}k_{74} \oplus k_{16}k_{72} \oplus k_{16}k_{72}k_{73} \oplus k_{16}k_{70}k_{71} \oplus k_{16}k_{56}k_{72} \oplus$$

$$k_{16}k_{56}k_{70}k_{71} \oplus k_{16}k_{47} \oplus k_{16}k_{45} \oplus k_{16}k_{45}k_{56} \oplus k_{16}k_{17} \oplus k_{15} \oplus k_{15}k_{74} \oplus$$

$$k_{15}k_{72}k_{73} \oplus k_{15}k_{64} \oplus k_{15}k_{51} \oplus k_{15}k_{49}k_{50} \oplus k_{15}k_{47} \oplus k_{15}k_{24} \oplus k_{15}k_{16} \oplus$$

$$k_{15}k_{16}k_{74} \oplus k_{15}k_{16}k_{73} \oplus k_{15}k_{16}k_{72}k_{73} \oplus k_{15}k_{16}k_{71} \oplus k_{15}k_{16}k_{70}k_{71} \oplus$$

$$k_{15}k_{16}k_{69}k_{70} \oplus k_{15}k_{16}k_{69}k_{70}k_{72} \oplus k_{15}k_{16}k_{69}k_{70}k_{71} \oplus k_{15}k_{16}k_{67} \oplus$$

$$k_{15}k_{16}k_{66} \oplus k_{15}k_{16}k_{59} \oplus k_{15}k_{16}k_{59}k_{72} \oplus k_{15}k_{16}k_{59}k_{70}k_{71} \oplus k_{15}k_{16}k_{57}k_{58} \oplus$$

$$k_{15}k_{16}k_{57}k_{58}k_{72} \oplus k_{15}k_{16}k_{57}k_{58}k_{70}k_{71} \oplus k_{15}k_{16}k_{47} \oplus k_{15}k_{16}k_{46} \oplus$$

$$k_{15}k_{16}k_{45}k_{71} \oplus k_{15}k_{16}k_{45}k_{69}k_{70} \oplus k_{15}k_{16}k_{45}k_{59} \oplus k_{15}k_{16}k_{45}k_{57}k_{58} \oplus$$

$$k_{15}k_{16}k_{44} \oplus k_{15}k_{16}k_{44}k_{72} \oplus k_{15}k_{16}k_{44}k_{70}k_{71} \oplus k_{15}k_{16}k_{44}k_{45} \oplus k_{15}k_{16}k_{25} \oplus$$

$$k_{15}k_{16}k_{23}k_{24} \oplus k_{14}k_{74} \oplus k_{14}k_{72}k_{73} \oplus k_{14}k_{64} \oplus k_{14}k_{64}k_{73} \oplus k_{14}k_{64}k_{71}k_{72} \oplus$$

$$k_{14}k_{61}k_{64} \oplus k_{14}k_{61}k_{64}k_{73} \oplus k_{14}k_{61}k_{64}k_{71}k_{72} \oplus k_{14}k_{60} \oplus k_{14}k_{60}k_{64} \oplus$$

$k_{14}k_{59}k_{60}k_{64} \oplus k_{14}k_{59}k_{60}k_{64}k_{73} \oplus k_{14}k_{59}k_{60}k_{64}k_{71}k_{72} \oplus k_{14}k_{58}k_{59}\oplus$

$k_{14}k_{58}k_{59}k_{64} \oplus k_{14}k_{56} \oplus k_{14}k_{47} \oplus k_{14}k_{46}k_{64} \oplus k_{14}k_{46}k_{61}k_{64}\oplus$

$k_{14}k_{46}k_{59}k_{60}k_{64} \oplus k_{14}k_{34}k_{64} \oplus k_{14}k_{34}k_{64}k_{73} \oplus k_{14}k_{34}k_{64}k_{71}k_{72}\oplus$

$k_{14}k_{34}k_{46}k_{64} \oplus k_{14}k_{33} \oplus k_{14}k_{33}k_{64} \oplus k_{13} \oplus k_{13}k_{74} \oplus k_{13}k_{72}k_{73}\oplus$

$k_{13}k_{50}k_{73} \oplus k_{13}k_{50}k_{71}k_{72} \oplus k_{13}k_{49}k_{50} \oplus k_{13}k_{48}k_{49} \oplus k_{13}k_{48}k_{49}k_{73}\oplus$

$k_{13}k_{48}k_{49}k_{71}k_{72} \oplus k_{13}k_{47} \oplus k_{13}k_{47}k_{48}k_{50} \oplus k_{13}k_{47}k_{48}k_{49} \oplus k_{13}k_{46}k_{50}\oplus$

$k_{13}k_{46}k_{48}k_{49} \oplus k_{13}k_{36}k_{50} \oplus k_{13}k_{36}k_{48}k_{49} \oplus k_{13}k_{34}k_{35}k_{50}\oplus$

$k_{13}k_{34}k_{35}k_{48}k_{49} \oplus k_{13}k_{23}k_{73} \oplus k_{13}k_{23}k_{71}k_{72} \oplus k_{13}k_{23}k_{49} \oplus k_{13}k_{23}k_{47}k_{48}\oplus$

$k_{13}k_{23}k_{46} \oplus k_{13}k_{23}k_{36} \oplus k_{13}k_{23}k_{34}k_{35} \oplus k_{13}k_{22}k_{50} \oplus k_{13}k_{22}k_{48}k_{49}\oplus$

$k_{13}k_{22}k_{23} \oplus k_{12} \oplus k_{12}k_{55} \oplus k_{12}k_{13} \oplus k_{12}k_{13}k_{56} \oplus k_{11}k_{62} \oplus k_{11}k_{60}k_{61}\oplus$

$k_{11}k_{35} \oplus k_{10} \oplus k_{10}k_{52} \oplus k_{10}k_{50}k_{51} \oplus k_{10}k_{25} \oplus k_{9} \oplus k_{9}k_{79} \oplus k_{9}k_{78}\oplus$

$k_{9}k_{77} \oplus k_{9}k_{76} \oplus k_{9}k_{76}k_{77} \oplus k_{9}k_{76}k_{77}k_{79} \oplus k_{9}k_{76}k_{77}k_{78} \oplus k_{9}k_{75}\oplus$

$k_{9}k_{75}k_{76} \oplus k_{9}k_{74}k_{75} \oplus k_{9}k_{73} \oplus k_{9}k_{73}k_{74} \oplus k_{9}k_{71}k_{72} \oplus k_{9}k_{68}k_{79}\oplus$

$k_{9}k_{68}k_{77}k_{78} \oplus k_{9}k_{67} \oplus k_{9}k_{66} \oplus k_{9}k_{65} \oplus k_{9}k_{64} \oplus k_{9}k_{63}k_{64} \oplus k_{9}k_{63}k_{64}k_{66}\oplus$

$k_{9}k_{63}k_{64}k_{65} \oplus k_{9}k_{62} \oplus k_{9}k_{61} \oplus k_{9}k_{61}k_{62} \oplus k_{9}k_{60} \oplus k_{9}k_{60}k_{77}\oplus$

$k_{9}k_{60}k_{75}k_{76} \oplus k_{9}k_{60}k_{64} \oplus k_{9}k_{60}k_{61} \oplus k_{9}k_{59} \oplus k_{9}k_{59}k_{60} \oplus k_{9}k_{55} \oplus k_{9}k_{54}\oplus$

$k_{9}k_{52}k_{78} \oplus k_{9}k_{52}k_{76}k_{77} \oplus k_{9}k_{52}k_{68} \oplus k_{9}k_{51} \oplus k_{9}k_{51}k_{79} \oplus k_{9}k_{51}k_{77}k_{78}\oplus$

$k_{9}k_{51}k_{52} \oplus k_{9}k_{50} \oplus k_{9}k_{50}k_{76} \oplus k_{9}k_{50}k_{75} \oplus k_{9}k_{50}k_{74} \oplus k_{9}k_{50}k_{74}k_{75}\oplus$

$k_{9}k_{50}k_{73}k_{74} \oplus k_{9}k_{50}k_{72}k_{73} \oplus k_{9}k_{50}k_{61} \oplus k_{9}k_{50}k_{60} \oplus k_{9}k_{50}k_{59}k_{60}\oplus$

$k_{9}k_{50}k_{51} \oplus k_{9}k_{49} \oplus k_{9}k_{49}k_{50} \oplus k_{9}k_{48} \oplus k_{9}k_{48}k_{50} \oplus k_{9}k_{48}k_{49}k_{76}\oplus$

$k_{9}k_{48}k_{49}k_{75} \oplus k_{9}k_{48}k_{49}k_{74} \oplus k_{9}k_{48}k_{49}k_{74}k_{75} \oplus k_{9}k_{48}k_{49}k_{73}k_{74}\oplus$

$k_{9}k_{48}k_{49}k_{72}k_{73} \oplus k_{9}k_{48}k_{49}k_{61} \oplus k_{9}k_{48}k_{49}k_{59}k_{60} \oplus k_{9}k_{47}k_{50}\oplus$

$k_{9}k_{47}k_{48}k_{49} \oplus k_{9}k_{46} \oplus k_{9}k_{44} \oplus k_{9}k_{40} \oplus k_{9}k_{39} \oplus k_{9}k_{39}k_{65} \oplus k_{9}k_{39}k_{63}k_{64}\oplus$

$k_{9}k_{38} \oplus k_{9}k_{38}k_{66} \oplus k_{9}k_{38}k_{64}k_{65} \oplus k_{9}k_{38}k_{39} \oplus k_{9}k_{34} \oplus k_{9}k_{34}k_{50}\oplus$

$k_{9}k_{34}k_{48}k_{49} \oplus k_{9}k_{31} \oplus k_{9}k_{25} \oplus k_{9}k_{23}k_{76} \oplus k_{9}k_{23}k_{75} \oplus k_{9}k_{23}k_{74}\oplus$

$k_{9}k_{23}k_{74}k_{75} \oplus k_{9}k_{23}k_{73}k_{74} \oplus k_{9}k_{23}k_{72}k_{73} \oplus k_{9}k_{23}k_{61} \oplus k_{9}k_{23}k_{59}k_{60}\oplus$

$k_{9}k_{23}k_{49} \oplus k_{9}k_{23}k_{48} \oplus k_{9}k_{23}k_{47} \oplus k_{9}k_{23}k_{34} \oplus k_{9}k_{13}k_{50} \oplus k_{9}k_{13}k_{48}k_{49}\oplus$

$k_{9}k_{13}k_{23} \oplus k_{7}k_{78} \oplus k_{7}k_{76}k_{77} \oplus k_{7}k_{75} \oplus k_{7}k_{74} \oplus k_{7}k_{73}k_{74} \oplus k_{7}k_{72}k_{73}\oplus$

$k_{7}k_{64}k_{74} \oplus k_{7}k_{64}k_{73} \oplus k_{7}k_{64}k_{70}k_{71}k_{73} \oplus k_{7}k_{64}k_{70}k_{71}k_{72} \oplus k_{7}k_{60}k_{64}\oplus$

$k_{7}k_{60}k_{64}k_{72} \oplus k_{7}k_{60}k_{64}k_{70}k_{71} \oplus k_{7}k_{59}k_{64} \oplus k_{7}k_{58}k_{59}k_{64}\oplus$

$k_{7}k_{58}k_{59}k_{64}k_{72} \oplus k_{7}k_{58}k_{59}k_{64}k_{70}k_{71} \oplus k_{7}k_{57}k_{58}k_{64} \oplus k_{7}k_{51} \oplus k_{7}k_{48}\oplus$

$k_{7}k_{47} \oplus k_{7}k_{47}k_{64} \oplus k_{7}k_{46}k_{64} \oplus k_{7}k_{46}k_{64}k_{72} \oplus k_{7}k_{46}k_{64}k_{70}k_{71}\oplus$

$k_{7}k_{45}k_{64}k_{73} \oplus k_{7}k_{45}k_{64}k_{71}k_{72} \oplus k_{7}k_{45}k_{60}k_{64} \oplus k_{7}k_{45}k_{58}k_{59}k_{64}\oplus$

$k_{7}k_{45}k_{46}k_{64} \oplus k_{7}k_{33}k_{64} \oplus k_{7}k_{33}k_{64}k_{72} \oplus k_{7}k_{33}k_{64}k_{70}k_{71} \oplus k_{7}k_{33}k_{45}k_{64}\oplus$

$k_{7}k_{32}k_{64} \oplus k_{6} \oplus k_{6}k_{77} \oplus k_{6}k_{75}k_{76} \oplus k_{6}k_{61} \oplus k_{6}k_{59}k_{60} \oplus k_{6}k_{55}k_{61}\oplus$

$k_{6}k_{55}k_{59}k_{60} \oplus k_{6}k_{50} \oplus k_{6}k_{34} \oplus k_{6}k_{34}k_{55} \oplus k_{6}k_{31} \oplus k_{6}k_{31}k_{55} \oplus k_{6}k_{29}k_{30}\oplus$

$$k_6k_{29}k_{30}k_{55} \oplus k_5k_{57} \oplus k_5k_{31} \oplus k_5k_{29}k_{30} \oplus k_4 \oplus k_4k_{76} \oplus k_4k_{74}k_{78} \oplus$$
$$k_4k_{74}k_{76}k_{77} \oplus k_4k_{74}k_{75} \oplus k_4k_{72}k_{73}k_{78} \oplus k_4k_{72}k_{73}k_{76}k_{77} \oplus k_4k_{61}k_{78} \oplus$$
$$k_4k_{61}k_{76}k_{77} \oplus k_4k_{59}k_{60}k_{78} \oplus k_4k_{59}k_{60}k_{76}k_{77} \oplus k_4k_{55}k_{74}k_{78} \oplus$$
$$k_4k_{55}k_{74}k_{76}k_{77} \oplus k_4k_{55}k_{72}k_{73}k_{78} \oplus k_4k_{55}k_{72}k_{73}k_{76}k_{77} \oplus k_4k_{55}k_{61}k_{78} \oplus$$
$$k_4k_{55}k_{61}k_{76}k_{77} \oplus k_4k_{55}k_{59}k_{60}k_{78} \oplus k_4k_{55}k_{59}k_{60}k_{76}k_{77} \oplus k_4k_{51}k_{74} \oplus$$
$$k_4k_{51}k_{72}k_{73} \oplus k_4k_{51}k_{61} \oplus k_4k_{51}k_{59}k_{60} \oplus k_4k_{51}k_{55}k_{74} \oplus k_4k_{51}k_{55}k_{72}k_{73} \oplus$$
$$k_4k_{51}k_{55}k_{61} \oplus k_4k_{51}k_{55}k_{59}k_{60} \oplus k_4k_{49} \oplus k_4k_{47}k_{78} \oplus k_4k_{47}k_{76}k_{77} \oplus$$
$$k_4k_{47}k_{55}k_{78} \oplus k_4k_{47}k_{55}k_{76}k_{77} \oplus k_4k_{47}k_{51} \oplus k_4k_{47}k_{51}k_{55} \oplus k_4k_{34}k_{78} \oplus$$
$$k_4k_{34}k_{76}k_{77} \oplus k_4k_{34}k_{55}k_{78} \oplus k_4k_{34}k_{55}k_{76}k_{77} \oplus k_4k_{34}k_{51} \oplus k_4k_{34}k_{51}k_{55} \oplus$$
$$k_4k_{32} \oplus k_4k_{30}k_{31} \oplus k_4k_6 \oplus k_4k_6k_{55} \oplus k_4k_5 \oplus \textcolor{red}{k_3}$$