*Example 5.* Let $G = U = \mathbb{Z}_3^4$ be the additive group of $\mathbb{F}_3$, with indexing $\{0000, 0001, 0002, 0010, \ldots, 2222\}$, the irreducible polynomial which defines multiplication in the field is $2 + x + x^4$ and let $\phi_{(4,3)}$ as in Example 1. Then the $G$-cocyclic matrix over $U$

$$[H]_{g,h} = \partial\phi_{(4,3)}(g,h)$$

$$H = \begin{pmatrix}
0000 & 0002 & 0001 & 1211 & 0221 & 2201 & 1100 & 0110 & 2120 & 0220 & 2121 & 1022 & 2010 & 2221 & 2102 & 2222 & 1102 & 0012 & 2012 & 1210 & 0111 & 0022 & 2202 & 1112 & 1202 & 1110 & 1021 & 0011 & 0201 & 0121 & 1221 & 1222 & 1220 & 1200 & 2001 & 0102 & 2122 & 0212 & 1002 & 1001 & 1201 & 1101 & 1120 & 1122 & 1121 & 0222 & 0010 & 0101 & 1111 & 2011 & 2021 & 2022 & 2020 & 0210 & 0100 & 0020 & 0202 & 1000 & 2101 & 2111 & 2112 & 2110 & 0200 & 0021 & 0112 & 1011 & 1012 & 1010 & 0120 & 1020 & 2220 & 2002 & 0122 & 1212 & 2210 & 2212 & 2211 & 2200 & 2100 & 2000 \\
0000 & 0001 & 0002 & 1100 & 0120 & 0110 & 1211 & 2201 & 0221 & 2012 & 0111 & 1210 & 1202 & 1021 & 1110 & 0022 & 1112 & 2202 & 0220 & 0022 & 2121 & 2222 & 0012 & 1102 & 2010 & 2012 & 1122 & 2200 & 2000 & 2100 & 2210 & 2211 & 2212 & 2000 & 0112 & 0021 & 0220 & 1220 & 1021 & 1010 & 1012 & 0011 & 0121 & 0201 & 1220 & 1222 & 1221 & 0002 & 2002 & 2001 & 2122 & 2120 & 2121 & 2020 & 0102 & 0101 & 0120 & 1020 & 1011 & 1001 & 1201 & 1101 \\
1211 & 1100 & 0110 & 0002 & 0221 & 0220 & 2120 & 2012 & 0210 & 2000 & 2100 & 2011 & 2220 & 1101 & 1112 & 2110 & 0102 & 2111 & 0121 & 1110 & 1212 & 2122 & 1000 & 0010 & 1120 & 1220 & 2121 & 0001 & 1022 & 0200 & 0212 & 1021 & 0012 & 1020 & 2101 & 1010 & 2002 & 2021 & 2022 & 2221 & 0101 & 0112 & 2010 & 0211 & 1202 & 2211 & 2200 & 0100 & 0020 & 2202 & 0011 & 1022 & 2201 & 2222 & 1210 & 2021 & 0012 & 1002 & 0111 & 0122 & 1121 & 1201 \\
0221 & 2120 & 0002 & 2201 & 1100 & 2012 & 1211 & 1102 & 0012 & 0010 & 0021 & 0022 & 2111 & 0202 & 0221 & 0020 & 0210 & 1222 & 1112 & 1011 & 1200 & 2021 & 1110 & 1111 & 1122 & 0120 & 2101 & 0012 & 1001 & 0222 & 0002 & 0212 & 0112 & 2110 & 0200 & 2221 & 1000 & 2222 & 2121 & 2212 & 2102 & 2000 & 2002 & 1121 & 0222 & 0002 & 2001 & 2022 & 1020 & 1220 & 0100 & 1210 & 0101 & 1120 & 2001 & 2110 & 2012 & 0011 & 0220 & 1102 & 2010 \\
2201 & 0110 & 0221 & 1100 & 2012 & 2120 & 1021 & 1211 & 2012 & 1210 & 1200 & 2202 & 2000 & 1112 & 2122 & 0121 & 2121 & 2000 & 1112 & 2122 & 0112 & 1011 & 2001 & 2002 & 1210 & 1221 & 2122 & 0112 & 0200 & 2000 & 1112 & 2122 & 0121 & 2121 & 2212 & 2002 & 0022 & 0112 & 0001 & 0222 & 0101 & 1101 & 1122 & 1111 & 2122 & 2102 & 0011 & 0021 & 1110 & 2220 & 0120 & 2011 & 1202 & 1001 & 0111 & 2000 \\
1100 & 1211 & 0220 & 2012 & 2120 & 0110 & 0221 & 0002 & 2111 & 1110 & 0121 & 0010 & 1220 & 1120 & 1212 & 1000 & 2122 & 0210 & 2100 & 2000 & 1112 & 0102 & 2110 & 2011 & 1101 & 2220 & 2211 & 0100 & 2200 & 1102 & 2222 & 2001 & 2020 & 0011 & 2202 & 1200 & 2201 & 1111 & 1122 & 2210 & 1221 & 1011 & 1222 & 1001 & 1210 & 0012 & 2021 & 1121 & 2202 & 1201 & 0002 & 0122 & 1111 & 2221 & 0111 & 0110 & 2011 & 2012 & 2102 & 2102 & 0021 & 2010 & 1202 & 2211 & 2221 & 0112 & 0101 & 2101 & 2002 & 0010 & 2020 & 2122 & 0001 \\
0110 & 2201 & 2120 & 1211 & 1021 & 0221 & 2012 & 1200 & 0200 & 1112 & 2002 & 2011 & 1122 & 0212 & 0121 & 2100 & 0002 & 1012 & 2000 & 1112 & 2122 & 0121 & 2121 & 0002 & 0022 & 0112 & 0001 & 0222 & 0101 & 1101 & 1122 & 1111 & 2122 & 2102 & 0011 & 0021 & 1110 & 2220 & 0120 & 2011 & 1202 & 1001 & 0111 & 2000 & 1222 & 2020 & 2101 & 2011 & 2020 & 1210 & 2222 & 1000 & 0202 & 0122 & 2111 & 2221 & 0112 & 0101 & 2101 & 2002 \\
2120 & 0221 & 2012 & 1102 & 1211 & 0002 & 1100 & 2201 & 1222 & 1011 & 1112 & 1111 & 0120 & 1122 & 1200 & 1110 & 2021 & 1012 & 0021 & 0010 & 0121 & 0210 & 0020 & 0022 & 2202 & 2111 & 1202 & 1020 & 2022 & 0001 & 2001 & 1120 & 1220 & 1210 & 0100 & 2202 & 1201 & 2212 & 2210 & 2211 & 0102 & 2000 & 2011 & 2220 & 1010 & 0111 & 2122 & 0110 & 2100 & 0011 & 0211 & 1101 & 0220 & 2001 & 1001 & 0012 & 0120 & 2110 & 0222 & 0212 & 1002 & 2002 & 1022 & 1121 & 1021 \\
0220 & 2012 & 0210 & 1012 & 0012 & 2111 & 0200 & 1222 & 2210 & 0001 & 2220 & 0110 & 1122 & 1100 & 2011 & 1021 & 1002 & 2121 & 1012 & 1001 & 1200 & 2202 & 0121 & 2121 & 2211 & 2112 & 1112 & 0221 & 0002 & 2002 & 2012 & 2021 & 2022 & 1000 & 2201 & 2222 & 1111 & 2120 & 1011 & 2020 & 1201 & 0100 & 2202 & 2000 & 0120 & 1022 & 2222 & 0102 & 2212 & 2002 & 2221 & 0011 & 1122 & 2100 & 0112 & 2011 & 1212 & 2201 & 0022 & 2100 & 0101 & 1002 & 2121 & 1001 \\
2121 & 1111 & 2000 & 0010 & 2222 & 1110 & 1112 & 1011 & 0001 & 1021 & 0012 & 1001 & 2202 & 0121 & 2002 & 1012 & 1001 & 1200 & 1202 & 0121 & 2002 & 0012 & 2120 & 2021 & 0122 & 1012 & 1022 & 1201 & 0110 & 0002 & 2022 & 2020 & 2211 & 0100 & 2210 & 1220 & 2200 & 2210 & 2221 & 2011 & 2202 & 2110 & 0011 & 1122 & 2222 & 1221 & 1002 & 2111 & 2222 & 1101 & 0102 & 1112 & 2000 & 1011 & 2112 & 1121 & 2222 & 1221 & 0100 & 2010 & 2220 & 1000 & 2002 & 2022 & 2221 & 2222 & 1212 & 0201 & 0012 & 1120 & 0001 & 2210 & 2112 & 0102 & 1122 & 2212 & 2220 \\
1022 & 1210 & 2100 & 0021 & 2110 & 0121 & 2000 & 1112 & 2120 & 2011 & 2202 & 0020 & 2122 & 0220 & 2012 & 1111 & 1211 & 0112 & 1011 & 0221 & 2101 & 0010 & 0022 & 1110 & 2001 & 2021 & 0121 & 1202 & 0120 & 0122 & 0002 & 0111 & 2002 & 1121 & 0222 & 1221 & 1201 & 0100 & 2010 & 2220 & 1000 & 2200 & 0102 & 2022 & 2221 & 2222 & 1212 & 0201 & 0002 & 1120 & 0001 & 2210 & 2112 & 2212 & 0011 & 1122 & 1100 & 0110 & 0222 & 1200 & 0210 & 1222 & 2200 & 2201 & 0101 & 1002 & 2121 & 1001 & 2021 & 0222 & 0122 & 1112 & 2212 \\
2010 & 1202 & 2011 & 0022 & 1200 & 0010 & 2100 & 1111 & 0110 & 0212 & 0020 & 1112 & 0001 & 2220 & 2111 & 2201 & 2012 & 2211 & 1110 & 0221 & 0210 & 1021 & 2202 & 2221 & 0022 & 1011 & 2002 & 1210 & 0210 & 1210 & 0202 & 2001 & 1000 & 2020 & 1111 & 1100 & 2202 & 1221 & 2211 & 2120 & 2000 & 0101 & 1010 & 2121 & 1122 & 0012 & 2022 & 0011 & 1220 & 1120 & 0100 & 2121 & 0002 & 1001 & 2220 & 2111 & 2011 & 2010 & 1201 & 0211 & 2210 & 2022 & 0110 & 1121 & 2100 & 0202 & 1220 & 2221 & 0201 & 1011 & 1002 & 2222 & 0011 & 1220 & 1120 & 0100 & 2121 & 0002 & 1001 & 2220 & 2111 & 2011 & 2010 & 1201 & 0211 & 2210 & 2022 & 0110 & 1121 & 2100 & 0202 & 1220 & 2221 & 0022 & 1212 & 1000 & 0021 & 1122 & 0012 & 1001 & 0112 & 0002 & 0222 & 1200 & 2211 & 2101 & 2021 & 1102 & 2121 & 1011 & 2112 & 1100 & 1221 & 2111 & 0212 & 1210 & 2201 \\
2221 & 1021 & 2220 & 2111 & 2202 & 1220 & 2211 & 0120 & 1122 & 0101 & 2122 & 0001 & 2101 & 1201 & 2110 & 1101 & 0110 & 1112 & 2021 & 0012 & 2000 & 2121 & 2012 & 2211 & 2011 & 1202 & 1100 & 2020 & 0220 & 1010 & 1211 & 1110 & 1102 & 0111 & 2112 & 0200 & 2202 & 1001 & 2002 & 0121 & 2010 & 1200 & 0212 & 2210 & 0210 & 1120 & 0020 & 1210 & 2001 & 1222 & 2102 & 2001 & 1001 & 2100 & 0010 & 2201 & 0022 & 1212 & 0112 & 1022 & 2022 & 0011 & 1220 & 1120 & 0100 & 2121 & 0002 & 1001 & 2220 & 2111 & 2011 & 2010 & 1201 & 0211 & 2210 & 2022 & 0110 & 1121 & 2100 & 0202 & 1220 & 2221 & 0022 & 1212 & 1000 & 0021 & 1122 & 0012 & 1001 & 0112 & 0002 & 0222 & 1200 & 2211 & 2101 & 2021 & 1102 & 2121 & 1011 & 2112 & 1100 & 1221 & 2111 & 0212 & 1210 & 2201 \\
2102 & 1110 & 1101 & 0202 & 2200 & 1120 & 1012 & 1122 & 1100 & 2002 & 0220 & 2220 & 1201 & 0212 & 1102 & 2021 & 0201 & 2112 & 2001 & 2002 & 0222 & 2020 & 1221 & 1022 & 0121 & 2011 & 0110 & 1200 & 2000 & 0211 & 0111 & 0002 & 2120 & 2222 & 2010 & 0101 & 1220 & 2122 & 1112 & 0120 & 0100 & 2121 & 1011 & 1000 & 2202 & 0002 & 1021 & 0122 & 1222 & 1200 & 1000 & 0021 & 2111 & 2212 & 2210 & 0001 & 1011 & 0022 & 2211 & 1020 & 2012 & 0200 & 2011 & 0021 & 2222 & 0222 & 2200 & 1000 & 1101 & 2201 & 1011 & 2120 & 2011 & 0022

We have that $(C_\infty) \cong \mathbb{Z}_2^7$ and $\Pi \cong \mathbb{Z}_2^6$. The rank of this code is 11 and the dimension of the kernel is 1. So, $C$ is not linear as we know.

$$\pi_x = \begin{cases}
(1,3,22,14,6,5)(7,8,9)(10,12,11)(13,15,14)(16,18,17)(19,21,20)(22,24,23)(25,27,26)(28,30,29)(31,33,32)(34,36,35)(37,39,38)(40,42,41) \\
(1,2,3)(4,5,6)(7,8,9)(10,11,12)(13,14,15)(16,17,18)(19,20,21)(22,23,24)(25,26,27)(28,29,30)(31,32,33)(34,35,36)(37,38,39)(40,41,42) \\
(1,4,7)(2,5,8)(3,6,9)(10,13,16)(11,14,17)(12,15,18)(19,22,25)(20,23,26)(21,24,27)(28,31,34)(29,32,35)(30,33,36)(37,40,43)(38,41,44) \\
(1,8,6)(2,9,4)(3,7,5)(10,17,15)(11,18,13)(12,16,14)(19,26,24)(20,27,22)(21,25,23)(28,35,33)(29,36,31)(30,34,32)(37,42,40)(38,44,41) \\
(1,9,5)(2,7,6)(3,8,4)(10,18,14)(11,16,15)(12,17,13)(19,27,23)(20,25,24)(21,26,22)(28,36,32)(29,34,33)(30,35,31)(37,41,44)(38,42,40) \\
(1,5,9)(2,6,7)(3,4,8)(10,14,18)(11,15,16)(12,13,17)(19,23,27)(20,24,25)(21,22,26)(28,32,36)(29,33,34)(30,31,35)(37,44,41)(38,40,42) \\
(1,22,16)(2,23,17)(3,24,18)(4,25,10)(5,26,11)(6,27,12)(7,19,13)(8,20,14)(9,21,15)(28,43,39)(29,40,34)(30,41,35)(31,37,42)(32,38,44) \\
(1,10,19)(2,11,20)(3,12,21)(4,13,22)(5,14,23)(6,15,24)(7,16,25)(8,17,26)(9,18,27)(28,37,40)(29,38,41)(30,39,42)(31,43,44) \\
(1,11,20)(2,12,21)(3,13,22)(4,14,23)(5,15,24)(6,16,25)(7,17,26)(8,18,27)(28,38,41)(29,39,42)(30,37,43)(31,40,44) \\
(1,12,20)(2,10,21)(3,11,22)(4,15,23)(5,13,24)(6,14,22)(7,18,25)(8,16,27)(28,39,42)(29,37,43)(30,40,44)(31,38,41) \\
(1,13,22)(2,14,23)(3,15,24)(4,10,21)(5,11,20)(6,12,19)(7,16,27)(8,17,25)(28,40,44)(29,41,38)(30,42,40)(31,39,42) \\
(1,14,17)(2,15,18)(3,16,19)(4,11,22)(5,12,20)(6,13,21)(7,25,28)(8,26,29)(9,27,30)(31,40,44)(32,41,38)(33,42,40) \\
(1,15,16)(2,13,17)(3,14,18)(4,12,20)(5,10,21)(6,11,22)(7,26,29)(8,27,28)(9,25,30)(31,41,44)(32,42,40)(33,38,41) \\
(1,16,15)(2,17,13)(3,18,14)(4,20,12)(5,21,10)(6,22,11)(7,27,29)(8,25,28)(9,26,30)(31,42,44)(32,38,41)(33,40,42) \\
(1,17,14)(2,18,15)(3,13,16)(4,21,12)(5,22,10)(6,20,11)(7,28,29)(8,30,25)(9,27,26)(31,43,44)(32,40,42)(33,41,38) \\
(1,18,13)(2,16,14)(3,17,15)(4,22,11)(5,20,12)(6,21,10)(7,29,28)(8,30,27)(9,25,26)(31,44,43)(32,42,40)(33,38,41) \\
(1,19,10)(2,20,11)(3,21,12)(4,15,22)(5,16,23)(6,14,24)(7,25,17)(8,26,18)(9,27,19)(28,46,37)(29,47,38)(30,48,39)(31,40,42)(32,41,44) \\
(1,20,11)(2,21,12)(3,22,13)(4,16,23)(5,17,24)(6,15,22)(7,26,18)(8,27,19)(9,25,20)(28,47,38)(29,48,39)(30,40,42)(31,41,44) \\
(1,21,12)(2,22,13)(3,23,14)(4,17,24)(5,18,22)(6,16,23)(7,27,19)(8,25,20)(9,26,18)(28,48,39)(29,40,42)(30,41,44) \\
(1,22,16)(2,23,17)(3,24,18)(4,25,10)(5,26,11)(6,27,12)(7,19,13)(8,20,14)(9,21,15)(28,49,43)(29,50,44)(30,51,45)(31,52,37)(32,53,38) \\
(1,23,18)(2,24,16)(3,22,17)(4,26,12)(5,27,10)(6,25,11)(7,20,15)(8,21,13)(9,19,14)(28,50,43)(29,51,44)(30,49,45)(31,53,38)(32,52,37) \\
(1,24,17)(2,22,18)(3,23,16)(4,27,11)(5,25,12)(6,26,10)(7,21,14)(8,19,15)(9,20,13)(28,51,44)(29,49,45)(30,50,43)(31,52,37)(32,53,38) \\
(1,17,24)(2,18,22)(3,16,23)(4,21,10)(5,19,11)(6,20,12)(7,28,29)(8,30,25)(9,27,26)(31,44,43)(32,40,42)(33,41,38) \\
(1,18,23)(2,16,24)(3,17,22)(4,19,12)(5,20,10)(6,21,11)(7,29,28)(8,25,30)(9,26,27)(31,43,44)(32,42,40)(33,38,41) \\
(1,19,10)(2,20,11)(3,21,12)(4,15,22)(5,16,23)(6,14,24)(7,25,17)(8,26,18)(9,27,19)(28,46,37)(29,47,38)(30,48,39)(31,40,42)(32,41,44) \\
(1,20,11)(2,21,12)(3,22,13)(4,16,23)(5,17,24)(6,15,22)(7,26,18)(8,27,19)(9,25,20)(28,47,38)(29,48,39)(30,40,42)(31,41,44) \\
(1,21,12)(2,22,13)(3,23,14)(4,17,24)(5,18,22)(6,16,23)(7,27,19)(8,25,20)(9,26,18)(28,48,39)(29,40,42)(30,41,44) \\
(1,22,16)(2,23,17)(3,24,18)(4,25,10)(5,26,11)(6,27,12)(7,19,13)(8,20,14)(9,21,15)(28,49,43)(29,50,44)(30,51,45)(31,52,37)(32,53,38) \\
(1,15,26)(2,13,27)(3,14,25)(4,18,20)(5,16,21)(6,17,19)(7,12,23)(8,10,24)(9,11,22)(28,42,53)(29,40,54)(30,41,52)(31,45,47)(32,43,48) \\
(1,16,25)(2,14,26)(3,15,27)(4,19,18)(5,17,20)(6,18,21)(7,23,12)(8,24,10)(9,22,11)(28,53,42)(29,54,40)(30,52,41)(31,47,45)(32,48,43) \\
(1,17,24)(2,15,25)(3,16,26)(4,20,19)(5,18,21)(6,19,17)(7,23,12)(8,24,10)(9,22,11)(28,54,40)(29,52,41)(30,53,42)(31,47,45)(32,48,43) \\
(1,18,23)(2,16,24)(3,17,25)(4,21,20)(5,19,22)(6,20,18)(7,23,12)(8,24,10)(9,22,11)(28,52,41)(29,53,42)(30,54,40)(31,48,43)(32,47,45) \\
(1,19,22)(2,17,23)(3,18,24)(4,22,21)(5,20,19)(6,21,17)(7,23,12)(8,24,10)(9,22,11)(28,53,42)(29,54,40)(30,52,41)(31,48,43)(32,47,45) \\
(1,20,21)(2,18,22)(3,19,23)(4,23,19)(5,21,20)(6,22,18)(7,23,12)(8,24,10)(9,22,11)(28,54,40)(29,52,41)(30,53,42)(31,47,45)(32,48,43) \\
(1,21,20)(2,19,22)(3,20,23)(4,24,18)(5,22,19)(6,23,17)(7,23,12)(8,24,10)(9,22,11)(28,52,41)(29,53,42)(30,54,40)(31,48,43)(32,47,45) \\
(1,22,21)(2,20,23)(3,21,24)(4,18,22)(5,23,20)(6,24,19)(7,23,12)(8,24,10)(9,22,11)(28,53,42)(29,54,40)(30,52,41)(31,47,45)(32,48,43) \\
(1,23,24)(2,21,22)(3,22,20)(4,19,23)(5,24,21)(6,23,22)(7,23,12)(8,24,10)(9,22,11)(28,54,40)(29,52,41)(30,53,42)(31,48,43)(32,47,45) \\
(1,24,23)(2,22,21)(3,23,19)(4,20,24)(5,23,22)(6,24,23)(7,23,12)(8,24,10)(9,22,11)(28,52,41)(29,53,42)(30,54,40)(31,47,45)(32,48,43) \\
(1,25,13)(2,26,14)(3,27,15)(4,19,16)(5,20,17)(6,21,18)(7,22,10)(8,23,11)(9,24,12)(28,52,40)(29,53,41)(30,54,42)(31,46,43)(32,47,44) \\
(1,26,15)(2,27,13)(3,25,14)(4,16,19)(5,17,20)(6,18,21)(7,22,10)(8,23,11)(9,24,12)(28,53,40)(29,54,41)(30,52,42)(31,46,43)(32,47,44) \\
(1,27,14)(2,25,15)(3,26,13)(4,17,19)(5,18,20)(6,16,21)(7,22,10)(8,23,11)(9,24,12)(28,54,40)(29,52,41)(30,53,42)(31,46,43)(32,47,44) \\
(1,28,25)(2,29,26)(3,30,27)(4,31,32)(5,32,33)(6,33,34)(7,34,35)(8,35,36)(9,36,31)(37,42,40)(38,44,41)(39,43,44) \\
(1,29,27)(2,30,25)(3,28,26)(4,32,33)(5,33,34)(6,34,35)(7,35,36)(8,36,31)(9,31,32)(37,43,44)(38,40,42)(39,41,40) \\
(1,30,26)(2,28,27)(3,29,25)(4,33,34)(5,34,35)(6,35,36)(7,36,31)(8,31,32)(9,32,33)(37,44,40)(38,41,42)(39,43,44) \\
(1,31,32)(2,32,33)(3,33,34)(4,34,35)(5,35,36)(6,36,31)(7,31,32)(8,32,33)(9,33,34)(37,40,42)(38,41,44)(39,43,44) \\
(1,32,31)(2,33,32)(3,34,33)(4,35,34)(5,36,31)(6,31,32)(7,32,33)(8,33,34)(9,34,35)(37,41,44)(38,42,40)(39,43,44) \\
(1,33,32)(2,34,33)(3,35,34)(4,36,31)(5,31,32)(6,32,33)(7,33,34)(8,34,35)(9,35,36)(37,42,40)(38,44,41)(39,43,44) \\
(1,34,33)(2,35,34)(3,36,31)(4,31,32)(5,32,33)(6,33,34)(7,34,35)(8,35,36)(9,36,31)(37,43,44)(38,40,42)(39,41,44) \\
(1,35,34)(2,36,31)(3,31,32)(4,32,33)(5,33,34)(6,34,35)(7,35,36)(8,36,31)(9,31,32)(37,44,40)(38,41,42)(39,43,44) \\
(1,36,31)(2,31,32)(3,32,33)(4,33,34)(5,34,35)(6,35,36)(7,36,31)(8,31,32)(9,32,33)(37,40,42)(38,41,44)(39,43,44) \\
(1,37,38)(2,39,40)(3,41,42)(4,43,44)(5,45,46)(6,47,48)(7,49,50)(8,51,52)(9,53,54)(10,55,56)(11,57,58)(12,59,60)(13,61,62)(14,63,64) \\
(1,38,37)(2,40,39)(3,42,41)(4,44,43)(5,46,45)(6,48,47)(7,50,49)(8,52,51)(9,54,53)(10,56,55)(11,58,57)(12,60,59)(13,62,61)(14,64,63) \\
(1,39,40)(2,37,41)(3,38,42)(4,45,44)(5,43,46)(6,49,47)(7,51,50)(8,53,52)(9,55,54)(10,57,56)(11,59,58)(12,61,60)(13,63,62)(14,64,63) \\
(1,40,39)(2,41,37)(3,42,38)(4,44,45)(5,46,43)(6,47,49)(7,50,51)(8,52,53)(9,54,55)(10,56,57)(11,58,59)(12,60,61)(13,62,63)(14,64,63) \\
(1,41,40)(2,42,39)(3,37,38)(4,45,44)(5,43,46)(6,49,47)(7,51,50)(8,53,52)(9,55,54)(10,57,56)(11,59,58)(12,61,60)(13,63,62)(14,64,63) \\
(1,42,41)(2,39,40)(3,38,37)(4,44,45)(5,46,43)(6,47,49)(7,50,51)(8,52,53)(9,54,55)(10,56,57)(11,58,59)(12,60,61)(13,62,63)(14,64,63) \\
(1,43,44)(2,40,41)(3,37,42)(4,45,39)(5,46,38)(6,47,48)(7,50,49)(8,51,52)(9,53,54)(10,55,56)(11,57,58)(12,59,60)(13,61,62)(14,63,64) \\
(1,44,43)(2,41,42)(3,38,37)(4,39,45)(5,40,46)(6,48,47)(7,49,50)(8,51,52)(9,53,54)(10,55,56)(11,57,58)(12,59,60)(13,61,62)(14,63,64) \\
(1,45,46)(2,47,48)(3,49,50)(4,51,52)(5,53,54)(6,55,56)(7,57,58)(8,59,60)(9,61,62)(10,63,64)(11,37,38)(12,39,40)(13,41,42)(14,43,44) \\
(1,46,45)(2,48,47)(3,50,49)(4,52,51)(5,54,53)(6,56,55)(7,58,57)(8,60,59)(9,62,61)(10,64,63)(11,38,37)(12,40,39)(13,42,41)(14,44,43) \\
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