

COVERS OF \mathbb{Z} WITH $k \leq 10$ RESIDUE CLASSES

§0. INTRODUCTION

For $a \in \mathbb{Z}$ and $n \in \mathbb{Z}^+$ let $a(n)$ stand for the residue class

$$a + n\mathbb{Z} = \{x \in \mathbb{Z} : x \equiv a \pmod{n}\}.$$

A finite system

$$A = \{a_s(n_s)\}_{s=1}^k$$

of residue classes is said to be a *cover* of \mathbb{Z} if $\bigcup_{s=1}^k a_s(n_s) = \mathbb{Z}$. This concept was first introduced by P. Erdős in the early 1930's, for more information on covers please visit the website <http://pweb.nju.edu.cn/zwsun/csz.htm>.

Clearly the system A forms a cover of \mathbb{Z} if and only if it covers $0, 1, \dots, N-1$ where N is the least common multiple of the moduli n_1, \dots, n_k . If A is a cover and all the n_1, \dots, n_k are distinct, then we call A a cover with distinct moduli. If A forms a cover but none of its proper systems does, then we say that A is a *minimal cover* with order k . If A and $B = \{b_t(m_t)\}_{t=1}^l$ are covers, then for any $1 \leq r \leq k$ the system C_r consisting of the following $k+l-1$ residue classes

$$a_s(n_s) \ (1 \leq s \leq k, s \neq r), \ a_r + b_t n_r(m_t n_r) \ (t = 1, \dots, l)$$

is also a cover. If $k > 1$ and $l > 1$ (i.e. $k, l < k+l-1$), then the composite cover C_r is said to be *reducible*.

We will give the data for minimal covers of \mathbb{Z} with order $k \leq 10$. They were obtained by an algorithm designed by Zhi-Wei Sun and his graduate student Si-Man Yang in 1998. The main part of the data first appeared in the following joint paper (as an appendix): S. M. Yang and Z. W. Sun, *Covers with less than 10 moduli and their applications*, J. Southeast Univ. (English Edition), 14(1998), no.2, 106-114.

Below we will list all reducible minimal covers (or the set of its moduli) with moduli distinct and order less than 10. Up to possible changes of the residues, we will also give all irreducible minimal covers with order at most 8, all irreducible minimal covers of order 9 with distinct moduli, and all minimal covers of order 10 with moduli n_1, \dots, n_{10} satisfying

$$n_1 = 2 < n_2 = 3 < n_3 = 4 < n_4 < n_5 < n_6 < n_7 < n_8 < n_9 < n_{10}.$$

§1. COVERS WITH $k \leq 7$

Case $k = 2$: $\{0(2), 1(2)\}$. *Case $k = 3$:* $\{0(3), 1(3), 2(3)\}$.

Case $k = 4$: $\{0(2), 0(3), 1(3), 5(6)\}$, $\{0(2), 1(3), 3(6), 5(6)\}$.

Case $k = 5$: $\{0(5), 1(5), 2(5), 3(5), 4(5)\}$, $\{1(2), 2(3), 1(3), 2(4), 0(12)\}$,
 $\{1(2), 1(3), 2(4), 2(6), 0(12)\}$, $\{1(2), 2(3), 2(4), 4(12), 0(12)\}$, $\{2(3), 1(3), 2(4), 3(6), 0(12)\}$.

Case $k = 6$: $\{2, 4, 6, 8, 12, 24\}$.

$\{1(2), 2(3), 1(3), 2(4), 4(8), 0(24)\}$, $\{1(2), 2(3), 1(3), 4(8), 6(12), 0(24)\}$,
 $\{1(2), 2(3), 1(3), 6(9), 3(9), 0(18)\}$, $\{1(2), 2(3), 1(3), 3(9), 6(18), 0(18)\}$,
 $\{1(2), 1(3), 2(4), 2(6), 4(8), 0(24)\}$, $\{1(2), 2(3), 2(4), 4(8), 4(12), 0(24)\}$,
 $\{1(2), 1(3), 2(4), 4(8), 8(24), 0(24)\}$, $\{1(2), 1(3), 2(6), 4(8), 6(12), 0(24)\}$,
 $\{1(2), 1(3), 2(6), 6(9), 3(9), 0(18)\}$, $\{1(2), 1(3), 2(6), 3(9), 6(18), 0(18)\}$,
 $\{1(2), 4(5), 3(5), 2(5), 1(5), 0(10)\}$, $\{1(2), 4(5), 3(5), 1(5), 2(10), 0(10)\}$,
 $\{1(2), 3(5), 1(5), 4(10), 2(10), 0(10)\}$, $\{1(2), 3(5), 6(10), 4(10), 2(10), 0(10)\}$,
 $\{1(2), 4(6), 2(6), 6(9), 3(9), 0(18)\}$, $\{1(2), 4(6), 2(6), 3(9), 6(18), 0(18)\}$,
 $\{2(3), 1(3), 2(4), 3(6), 4(8), 0(24)\}$, $\{2(3), 1(3), 3(6), 4(8), 6(12), 0(24)\}$,
 $\{2(3), 2(4), 3(6), 1(6), 4(12), 0(12)\}$.

Case $k = 7$:

$\{2, 4, 8, 12, 16, 24, 48\}$, $\{2, 4, 6, 8, 12, 16, 48\}$,
 $\{2, 4, 6, 8, 16, 24, 48\}$, $\{2, 4, 6, 12, 16, 24, 48\}$.

$N = 7$: $\{0(7), 1(7), 2(7), 3(7), 4(7), 5(7), 6(7)\}$.

$N = 15$:

$\{2(3), 1(3), 4(5), 3(5), 2(5), 1(5), 0(15)\}$, $\{2(3), 1(3), 4(5), 2(5), 1(5), 3(15), 0(15)\}$,
 $\{2(3), 1(3), 4(5), 2(5), 6(15), 3(15), 0(15)\}$, $\{2(3), 1(3), 2(5), 9(15), 6(15), 3(15), 0(15)\}$,
 $\{1(3), 4(5), 3(5), 2(5), 1(5), 5(15), 0(15)\}$.

$N = 20$:

$\{1(2), 2(4), 4(5), 3(5), 2(5), 1(5), 0(20)\}$, $\{1(2), 2(4), 4(5), 3(5), 1(5), 2(10), 0(20)\}$,
 $\{1(2), 2(4), 3(5), 2(5), 1(5), 4(20), 0(20)\}$, $\{1(2), 2(4), 3(5), 1(5), 4(10), 2(10), 0(20)\}$,
 $\{1(2), 2(4), 3(5), 1(5), 2(10), 4(20), 0(20)\}$, $\{1(2), 2(4), 2(5), 1(5), 8(20), 4(20), 0(20)\}$,
 $\{1(2), 2(4), 3(5), 6(10), 4(10), 2(10), 0(20)\}$, $\{1(2), 2(4), 3(5), 6(10), 2(10), 4(20), 0(20)\}$,
 $\{1(2), 2(4), 1(5), 2(10), 8(20), 4(20), 0(20)\}$, $\{1(2), 2(4), 1(5), 12(20), 8(20), 4(20), 0(20)\}$,
 $\{2(4), 4(5), 3(5), 2(5), 1(5), 5(10), 0(20)\}$.

$N = 24$:

$$\begin{aligned} & \{1(2), 1(3), 4(8), 6(12), 2(12), 8(24), 0(24)\}, \\ & \{2(3), 2(4), 3(6), 1(6), 4(8), 4(12), 0(24)\}, \\ & \{1(3), 2(4), 5(6), 3(6), 4(8), 8(24), 0(24)\}. \end{aligned}$$

$N = 36$:

$$\begin{aligned} & \{1(2), 2(3), 1(3), 2(4), 6(9), 3(9), 0(36)\}, \{1(2), 2(3), 1(3), 2(4), 3(9), 6(18), 0(36)\}, \\ & \{1(2), 2(3), 1(3), 2(4), 6(9), 12(36), 0(36)\}, \{1(2), 2(3), 1(3), 2(4), 12(18), 6(18), 0(36)\}, \\ & \{1(2), 2(3), 1(3), 2(4), 6(18), 12(36), 0(36)\}, \{1(2), 2(3), 1(3), 6(9), 3(9), 6(12), 0(36)\}, \\ & \{1(2), 2(3), 1(3), 3(9), 6(12), 6(18), 0(36)\}, \{1(2), 2(3), 1(3), 6(9), 6(12), 12(36), 0(36)\}, \\ & \{1(2), 1(3), 2(4), 2(6), 6(9), 3(9), 0(36)\}, \{1(2), 1(3), 2(4), 2(6), 3(9), 6(18), 0(36)\}, \\ & \{1(2), 1(3), 2(4), 2(6), 6(9), 12(36), 0(36)\}, \{1(2), 1(3), 2(4), 2(6), 12(18), 6(18), 0(36)\}, \\ & \{1(2), 1(3), 2(4), 2(6), 6(18), 12(36), 0(36)\}, \{1(2), 1(3), 0(4), 6(9), 3(9), 2(12), 0(18)\}, \\ & \{1(2), 2(3), 2(4), 6(9), 3(9), 4(12), 0(36)\}, \{1(2), 1(3), 0(4), 3(9), 2(12), 6(18), 0(18)\}, \\ & \{1(2), 2(3), 2(4), 3(9), 4(12), 6(18), 0(36)\}, \{1(2), 2(3), 2(4), 6(9), 4(12), 12(36), 0(36)\}, \\ & \{1(2), 2(3), 2(4), 4(12), 12(18), 6(18), 0(36)\}, \{1(2), 2(3), 2(4), 4(12), 6(18), 12(36), 0(36)\}, \\ & \{1(2), 1(3), 2(6), 6(9), 3(9), 6(12), 0(36)\}, \{1(2), 1(3), 2(6), 3(9), 6(12), 6(18), 0(36)\}, \\ & \{1(2), 1(3), 2(6), 6(9), 6(12), 12(36), 0(36)\}, \{1(2), 2(4), 4(6), 2(6), 6(9), 3(9), 0(36)\}, \\ & \{1(2), 2(4), 4(6), 2(6), 3(9), 6(18), 0(36)\}, \{1(2), 2(4), 4(6), 2(6), 6(9), 12(36), 0(36)\}, \\ & \{1(2), 0(4), 4(6), 6(9), 3(9), 2(12), 0(18)\}, \{1(2), 2(4), 2(6), 6(9), 3(9), 4(12), 0(36)\}, \\ & \{1(2), 0(4), 4(6), 3(9), 2(12), 6(18), 0(18)\}, \{1(2), 2(4), 2(6), 3(9), 4(12), 6(18), 0(36)\}, \\ & \{1(2), 2(4), 2(6), 6(9), 4(12), 12(36), 0(36)\}, \{1(2), 0(4), 6(9), 3(9), 10(12), 2(12), 0(18)\}, \\ & \{1(2), 2(4), 6(9), 3(9), 8(12), 4(12), 0(36)\}, \{1(2), 0(4), 3(9), 10(12), 2(12), 6(18), 0(18)\}, \\ & \{1(2), 2(4), 3(9), 8(12), 4(12), 6(18), 0(36)\}, \{1(2), 2(4), 6(9), 8(12), 4(12), 12(36), 0(36)\}, \\ & \{1(2), 4(6), 2(6), 6(9), 3(9), 6(12), 0(36)\}, \{1(2), 4(6), 2(6), 3(9), 6(12), 6(18), 0(36)\}, \\ & \{1(2), 4(6), 2(6), 6(9), 6(12), 12(36), 0(36)\}, \{2(3), 1(3), 2(4), 3(6), 6(9), 3(9), 0(36)\}, \\ & \{2(3), 1(3), 2(4), 3(6), 3(9), 6(18), 0(36)\}, \{2(3), 1(3), 2(4), 3(6), 6(9), 12(36), 0(36)\}, \\ & \{2(3), 1(3), 2(4), 3(6), 12(18), 6(18), 0(36)\}, \{2(3), 1(3), 2(4), 3(6), 6(18), 12(36), 0(36)\}, \\ & \{2(3), 1(3), 1(4), 6(9), 3(9), 3(12), 0(18)\}, \{2(3), 1(3), 2(4), 6(9), 3(9), 9(18), 0(36)\}. \end{aligned}$$

$N = 48$:

$$\begin{aligned} & \{1(2), 2(3), 1(3), 2(4), 4(8), 8(16), 0(48)\}, \{1(2), 2(3), 1(3), 2(4), 8(16), 12(24), 0(48)\}, \\ & \{1(2), 2(3), 1(3), 4(8), 6(12), 8(16), 0(48)\}, \{1(2), 2(3), 1(3), 6(12), 8(16), 12(24), 0(48)\}, \\ & \{1(2), 1(3), 2(4), 2(6), 4(8), 8(16), 0(48)\}, \{1(2), 1(3), 2(4), 2(6), 8(16), 12(24), 0(48)\}, \\ & \{1(2), 2(3), 2(4), 4(8), 4(12), 8(16), 0(48)\}, \{1(2), 1(3), 2(4), 4(8), 8(16), 8(24), 0(48)\}, \\ & \{1(2), 2(3), 2(4), 4(8), 8(16), 16(48), 0(48)\}, \{1(2), 2(3), 2(4), 4(12), 8(16), 12(24), 0(48)\}. \end{aligned}$$

$\{1(2), 1(3), 2(6), 4(8), 6(12), 8(16), 0(48)\}$, $\{1(2), 1(3), 2(6), 6(12), 8(16), 12(24), 0(48)\}$,
 $\{2(3), 1(3), 2(4), 3(6), 4(8), 8(16), 0(48)\}$, $\{2(3), 1(3), 2(4), 3(6), 8(16), 12(24), 0(48)\}$,
 $\{2(3), 1(3), 3(6), 4(8), 6(12), 8(16), 0(48)\}$, $\{2(3), 1(3), 3(6), 6(12), 8(16), 12(24), 0(48)\}$.

§2. COVERS WITH $k = 8$

$\{2, 4, 8, 16, 24, 32, 48, 96\}$, $\{2, 4, 8, 12, 16, 24, 32, 96\}$, $\{2, 4, 8, 12, 16, 32, 48, 96\}$,
 $\{2, 4, 8, 12, 24, 32, 48, 96\}$, $\{2, 4, 6, 8, 12, 16, 32, 96\}$, $\{2, 4, 6, 8, 12, 18, 36, 72\}$,
 $\{2, 4, 6, 8, 12, 32, 48, 96\}$, $\{2, 4, 6, 8, 16, 24, 32, 96\}$, $\{2, 4, 6, 8, 16, 32, 48, 96\}$,
 $\{2, 4, 6, 8, 18, 24, 36, 72\}$, $\{2, 4, 6, 8, 24, 32, 48, 96\}$, $\{2, 4, 6, 12, 16, 24, 32, 96\}$,
 $\{2, 4, 6, 12, 18, 24, 36, 72\}$, $\{2, 4, 6, 12, 24, 32, 48, 96\}$, $\{2, 4, 8, 12, 18, 24, 36, 72\}$,
 $\{2, 3, 6, 12, 18, 24, 36, 72\}$.

$N = 14$:

$\{1(2), 6(7), 5(7), 4(7), 3(7), 2(7), 1(7), 0(14)\}$,
 $\{1(2), 6(7), 5(7), 4(7), 3(7), 1(7), 2(14), 0(14)\}$,
 $\{1(2), 6(7), 5(7), 3(7), 1(7), 4(14), 2(14), 0(14)\}$,
 $\{1(2), 5(7), 3(7), 1(7), 6(14), 4(14), 2(14), 0(14)\}$,
 $\{1(2), 5(7), 3(7), 8(14), 6(14), 4(14), 2(14), 0(14)\}$,
 $\{1(2), 5(7), 10(14), 8(14), 6(14), 4(14), 2(14), 0(14)\}$.

$N = 15$: $\{2(3), 4(5), 3(5), 2(5), 10(15), 6(15), 1(15), 0(15)\}$.

$N = 20$: $\{2(4), 3(5), 2(5), 1(5), 9(10), 5(10), 4(20), 0(20)\}$.

$N = 24$: $\{1(3), 5(6), 3(6), 4(8), 6(12), 2(12), 8(24), 0(24)\}$.

$N = 36$:

$\{2(3), 1(3), 1(4), 3(9), 3(12), 6(18), 18(36), 0(36)\}$,
 $\{2(3), 1(3), 2(4), 6(9), 9(18), 3(18), 12(36), 0(36)\}$,
 $\{2(3), 2(4), 3(6), 1(6), 6(9), 3(9), 4(12), 0(36)\}$,
 $\{2(3), 2(4), 3(6), 1(6), 3(9), 4(12), 6(18), 0(36)\}$,
 $\{2(3), 2(4), 3(6), 1(6), 6(9), 4(12), 12(36), 0(36)\}$,
 $\{2(3), 2(4), 3(6), 1(6), 4(12), 12(18), 6(18), 0(36)\}$,
 $\{2(3), 2(4), 3(6), 1(6), 4(12), 6(18), 12(36), 0(36)\}$,
 $\{2(3), 3(4), 4(6), 6(9), 3(9), 9(12), 1(12), 0(18)\}$,
 $\{2(3), 2(4), 1(6), 6(9), 3(9), 4(12), 9(18), 0(36)\}$,
 $\{2(3), 3(4), 4(6), 3(9), 9(12), 1(12), 6(18), 0(18)\}$.

$N = 48$:

$$\begin{aligned} & \{1(2), 2(3), 2(4), 8(16), 12(24), 4(24), 16(48), 0(48)\}, \\ & \{1(2), 1(3), 4(8), 6(12), 2(12), 8(16), 8(24), 0(48)\}, \\ & \{1(2), 2(3), 4(8), 10(12), 6(12), 8(16), 16(48), 0(48)\}, \\ & \{2(3), 2(4), 3(6), 1(6), 4(8), 4(12), 8(16), 0(48)\}, \\ & \{1(3), 2(4), 5(6), 3(6), 4(8), 8(16), 8(24), 0(48)\}, \\ & \{2(3), 2(4), 3(6), 1(6), 4(8), 8(16), 16(48), 0(48)\}, \\ & \{2(3), 2(4), 3(6), 1(6), 4(12), 8(16), 12(24), 0(48)\}. \end{aligned}$$

$N = 54$:

$$\begin{aligned} & \{1(2), 2(3), 1(3), 6(9), 3(9), 18(27), 9(27), 0(54)\}, \\ & \{1(2), 2(3), 1(3), 6(9), 3(9), 9(27), 18(54), 0(54)\}, \\ & \{1(2), 2(3), 1(3), 3(9), 6(18), 18(27), 9(27), 0(54)\}, \\ & \{1(2), 2(3), 1(3), 3(9), 6(18), 9(27), 18(54), 0(54)\}, \\ & \{1(2), 2(3), 1(3), 12(18), 6(18), 18(27), 9(27), 0(54)\}, \\ & \{1(2), 2(3), 1(3), 12(18), 6(18), 9(27), 18(54), 0(54)\}, \\ & \{1(2), 1(3), 2(6), 6(9), 3(9), 18(27), 9(27), 0(54)\}, \\ & \{1(2), 1(3), 2(6), 6(9), 3(9), 9(27), 18(54), 0(54)\}, \\ & \{1(2), 1(3), 2(6), 3(9), 6(18), 18(27), 9(27), 0(54)\}, \\ & \{1(2), 1(3), 2(6), 3(9), 6(18), 9(27), 18(54), 0(54)\}, \\ & \{1(2), 1(3), 2(6), 12(18), 6(18), 18(27), 9(27), 0(54)\}, \\ & \{1(2), 1(3), 2(6), 12(18), 6(18), 9(27), 18(54), 0(54)\}, \\ & \{1(2), 4(6), 2(6), 6(9), 3(9), 18(27), 9(27), 0(54)\}, \\ & \{1(2), 4(6), 2(6), 6(9), 3(9), 9(27), 18(54), 0(54)\}, \\ & \{1(2), 4(6), 2(6), 3(9), 6(18), 18(27), 9(27), 0(54)\}, \\ & \{1(2), 4(6), 2(6), 3(9), 6(18), 9(27), 18(54), 0(54)\}, \\ & \{1(2), 4(6), 2(6), 12(18), 6(18), 18(27), 9(27), 0(54)\}, \\ & \{1(2), 4(6), 2(6), 12(18), 6(18), 9(27), 18(54), 0(54)\}. \end{aligned}$$

$N = 96$:

$\{1(2), 2(3), 1(3), 2(4), 4(8), 8(16), 16(32), 0(96)\},$
 $\{1(2), 2(3), 1(3), 2(4), 4(8), 16(32), 24(48), 0(96)\},$
 $\{1(2), 2(3), 1(3), 2(4), 8(16), 12(24), 16(32), 0(96)\},$
 $\{1(2), 2(3), 1(3), 2(4), 12(24), 16(32), 24(48), 0(96)\},$
 $\{1(2), 2(3), 1(3), 4(8), 6(12), 8(16), 16(32), 0(96)\},$
 $\{1(2), 2(3), 1(3), 4(8), 6(12), 16(32), 24(48), 0(96)\}.$
 $\{1(2), 2(3), 1(3), 6(12), 8(16), 12(24), 16(32), 0(96)\},$
 $\{1(2), 2(3), 1(3), 6(12), 12(24), 16(32), 24(48), 0(96)\},$
 $\{1(2), 1(3), 2(4), 2(6), 4(8), 8(16), 16(32), 0(96)\},$
 $\{1(2), 1(3), 2(4), 2(6), 4(8), 16(32), 24(48), 0(96)\},$
 $\{1(2), 1(3), 2(4), 2(6), 8(16), 12(24), 16(32), 0(96)\},$
 $\{1(2), 1(3), 2(4), 2(6), 12(24), 16(32), 24(48), 0(96)\},$
 $\{1(2), 2(3), 2(4), 4(8), 4(12), 8(16), 16(32), 0(96)\},$
 $\{1(2), 2(3), 2(4), 4(8), 4(12), 16(32), 24(48), 0(96)\},$
 $\{1(2), 1(3), 2(4), 4(8), 8(16), 8(24), 16(32), 0(96)\},$
 $\{1(2), 2(3), 2(4), 4(8), 8(16), 16(32), 16(48), 0(96)\},$
 $\{1(2), 1(3), 2(4), 4(8), 8(16), 16(32), 32(96), 0(96)\},$
 $\{1(2), 1(3), 2(4), 4(8), 8(24), 16(32), 24(48), 0(96)\},$
 $\{1(2), 2(3), 2(4), 4(12), 8(16), 12(24), 16(32), 0(96)\},$
 $\{1(2), 2(3), 2(4), 4(12), 12(24), 16(32), 24(48), 0(96)\},$
 $\{1(2), 1(3), 2(6), 4(8), 6(12), 8(16), 16(32), 0(96)\},$
 $\{1(2), 1(3), 2(6), 4(8), 6(12), 16(32), 24(48), 0(96)\},$
 $\{1(2), 1(3), 2(6), 6(12), 8(16), 12(24), 16(32), 0(96)\},$
 $\{1(2), 1(3), 2(6), 6(12), 12(24), 16(32), 24(48), 0(96)\},$
 $\{2(3), 1(3), 2(4), 3(6), 4(8), 8(16), 16(32), 0(96)\},$
 $\{2(3), 1(3), 2(4), 3(6), 4(8), 16(32), 24(48), 0(96)\},$
 $\{2(3), 1(3), 2(4), 3(6), 8(16), 12(24), 16(32), 0(96)\},$
 $\{2(3), 1(3), 2(4), 3(6), 12(24), 16(32), 24(48), 0(96)\},$
 $\{2(3), 1(3), 3(6), 4(8), 6(12), 8(16), 16(32), 0(96)\},$
 $\{2(3), 1(3), 3(6), 4(8), 6(12), 16(32), 24(48), 0(96)\},$
 $\{2(3), 1(3), 3(6), 6(12), 8(16), 12(24), 16(32), 0(96)\},$
 $\{2(3), 1(3), 3(6), 6(12), 12(24), 16(32), 24(48), 0(96)\}.$

$N = 72$:

- $\{1(2), 2(3), 1(3), 2(4), 4(8), 6(9), 3(9), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 2(4), 4(8), 3(9), 6(18), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 2(4), 4(8), 6(9), 12(36), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 2(4), 4(8), 3(9), 24(72), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 2(4), 4(8), 12(18), 6(18), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 2(4), 4(8), 6(18), 12(36), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 2(4), 4(8), 12(18), 24(72), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 2(4), 4(8), 24(36), 12(36), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 2(4), 4(8), 12(36), 24(72), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 2(4), 6(9), 3(9), 12(24), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 2(4), 3(9), 6(18), 12(24), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 2(4), 6(9), 12(24), 12(36), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 2(4), 3(9), 12(24), 24(72), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 2(4), 12(18), 6(18), 12(24), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 2(4), 6(18), 12(24), 12(36), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 2(4), 12(18), 12(24), 24(72), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 4(8), 6(9), 3(9), 6(12), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 2(8), 6(9), 3(9), 6(24), 0(36)\}$,
- $\{1(2), 2(3), 1(3), 4(8), 6(9), 3(9), 18(36), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 4(8), 3(9), 6(12), 6(18), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 4(8), 6(9), 6(12), 12(36), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 4(8), 3(9), 6(12), 24(72), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 2(8), 3(9), 6(18), 6(24), 0(36)\}$,
- $\{1(2), 2(3), 1(3), 4(8), 3(9), 6(18), 18(36), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 4(8), 6(12), 12(18), 6(18), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 4(8), 6(12), 6(18), 12(36), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 4(8), 6(12), 12(18), 24(72), 0(72)\}$,
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- $\{1(2), 2(3), 1(3), 4(8), 6(12), 12(36), 24(72), 0(72)\}$,
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- $\{1(2), 2(3), 1(3), 4(8), 12(18), 6(18), 18(36), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 6(9), 3(9), 6(12), 12(24), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 6(9), 3(9), 12(24), 18(36), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 3(9), 6(12), 6(18), 12(24), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 6(9), 6(12), 12(24), 12(36), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 3(9), 6(12), 12(24), 24(72), 0(72)\}$,
- $\{1(2), 2(3), 1(3), 3(9), 6(18), 12(24), 18(36), 0(72)\}$.

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$N = 30$:

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$N = 40$:

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 $\{4(5), 3(5), 2(5), 1(5), 4(8), 5(10), 10(20), 0(40)\}$.

§3. COVERS WITH $k = 9$

$\{2, 4, 8, 16, 32, 48, 64, 96, 192\}$, $\{2, 4, 8, 16, 24, 32, 48, 64, 192\}$, $\{2, 4, 8, 16, 24, 32, 64, 96, 192\}$,
 $\{2, 4, 8, 16, 24, 48, 64, 96, 192\}$, $\{2, 4, 8, 12, 16, 24, 32, 64, 192\}$, $\{2, 4, 8, 12, 16, 24, 36, 72, 144\}$,
 $\{2, 4, 8, 12, 16, 24, 64, 96, 192\}$, $\{2, 4, 8, 12, 16, 32, 48, 64, 192\}$, $\{2, 4, 8, 12, 16, 32, 64, 96, 192\}$,
 $\{2, 4, 8, 12, 16, 36, 48, 72, 144\}$, $\{2, 4, 8, 12, 16, 48, 64, 96, 192\}$, $\{2, 4, 8, 12, 24, 32, 48, 64, 192\}$,
 $\{2, 4, 8, 12, 24, 36, 48, 72, 144\}$, $\{2, 4, 8, 12, 24, 48, 64, 96, 192\}$, $\{2, 4, 8, 16, 24, 36, 48, 72, 144\}$.

$\{2, 4, 6, 12, 24, 36, 48, 72, 144\}$, $\{2, 4, 6, 8, 12, 16, 18, 36, 144\}$, $\{2, 4, 6, 8, 12, 16, 18, 72, 144\}$,
 $\{2, 4, 6, 8, 12, 16, 32, 64, 192\}$, $\{2, 4, 6, 8, 12, 16, 36, 72, 144\}$, $\{2, 4, 6, 8, 12, 16, 64, 96, 192\}$,
 $\{2, 4, 6, 8, 12, 18, 36, 48, 144\}$, $\{2, 4, 6, 8, 12, 18, 48, 72, 144\}$, $\{2, 4, 6, 8, 12, 32, 48, 64, 192\}$,
 $\{2, 4, 6, 8, 12, 36, 48, 72, 144\}$, $\{2, 4, 6, 8, 12, 48, 64, 96, 192\}$, $\{2, 4, 6, 8, 16, 18, 24, 36, 144\}$,
 $\{2, 4, 6, 8, 16, 18, 24, 72, 144\}$, $\{2, 4, 6, 8, 16, 18, 36, 48, 72\}$, $\{2, 4, 6, 8, 16, 18, 36, 48, 144\}$,
 $\{2, 4, 6, 8, 16, 18, 48, 72, 144\}$, $\{2, 4, 6, 8, 16, 24, 32, 64, 192\}$, $\{2, 4, 6, 8, 16, 24, 36, 72, 144\}$.

$\{2, 4, 6, 8, 16, 24, 64, 96, 192\}$, $\{2, 4, 6, 8, 16, 32, 48, 64, 192\}$, $\{2, 4, 6, 8, 16, 32, 64, 96, 192\}$,
 $\{2, 4, 6, 8, 16, 36, 48, 72, 144\}$, $\{2, 4, 6, 8, 16, 48, 64, 96, 192\}$, $\{2, 4, 6, 8, 18, 24, 36, 48, 144\}$,
 $\{2, 4, 6, 8, 18, 24, 48, 72, 144\}$, $\{2, 4, 6, 8, 24, 32, 48, 64, 192\}$, $\{2, 4, 6, 8, 24, 36, 48, 72, 144\}$,
 $\{2, 4, 6, 8, 24, 48, 64, 96, 192\}$, $\{2, 4, 6, 12, 16, 18, 24, 36, 144\}$, $\{2, 4, 6, 12, 16, 18, 24, 72, 144\}$,
 $\{2, 4, 6, 12, 16, 18, 36, 48, 72\}$, $\{2, 4, 6, 12, 16, 18, 36, 72, 144\}$, $\{2, 4, 6, 12, 16, 24, 32, 64, 192\}$,
 $\{2, 4, 6, 12, 16, 24, 36, 72, 144\}$, $\{2, 4, 6, 12, 16, 24, 64, 96, 192\}$, $\{2, 4, 6, 12, 18, 24, 36, 48, 144\}$,
 $\{2, 4, 6, 12, 18, 24, 48, 72, 144\}$, $\{2, 4, 6, 12, 18, 36, 48, 72, 144\}$, $\{2, 4, 6, 12, 24, 32, 48, 64, 192\}$,
 $\{2, 4, 6, 12, 24, 48, 64, 96, 192\}$, $\{2, 4, 8, 12, 16, 18, 24, 36, 144\}$, $\{2, 4, 8, 12, 16, 18, 24, 72, 144\}$.

$\{2, 4, 8, 12, 16, 18, 36, 48, 72\}$, $\{2, 4, 8, 12, 16, 18, 36, 48, 144\}$, $\{2, 4, 8, 12, 16, 18, 48, 72, 144\}$,
 $\{2, 4, 8, 12, 18, 24, 36, 48, 144\}$, $\{2, 4, 8, 12, 18, 24, 48, 72, 144\}$, $\{2, 4, 8, 16, 18, 24, 36, 48, 72\}$,
 $\{2, 4, 8, 16, 18, 24, 36, 48, 144\}$, $\{2, 4, 8, 16, 18, 24, 48, 72, 144\}$, $\{2, 3, 6, 12, 24, 36, 48, 72, 144\}$,
 $\{2, 3, 6, 12, 18, 24, 36, 48, 144\}$, $\{2, 3, 6, 12, 18, 24, 48, 72, 144\}$, $\{2, 3, 6, 12, 18, 36, 48, 72, 144\}$,
 $\{2, 3, 4, 6, 24, 36, 48, 72, 144\}$, $\{2, 3, 4, 12, 24, 36, 48, 72, 144\}$.

$N = 60$:

$\{1(2), 1(3), 0(4), 1(5), 2(6), 4(10), 3(15), 2(20), 0(30)\}$,
 $\{1(2), 1(3), 2(4), 1(5), 2(6), 2(10), 3(15), 4(20), 0(60)\}$,
 $\{1(2), 1(3), 2(4), 4(5), 2(6), 2(10), 3(15), 6(30), 0(60)\}$,
 $\{1(2), 1(3), 2(4), 3(5), 2(6), 2(10), 4(20), 6(30), 0(60)\}$,
 $\{1(2), 1(3), 2(4), 2(5), 2(6), 3(15), 4(20), 6(30), 0(60)\}$,
 $\{1(2), 1(3), 0(4), 1(5), 4(10), 2(12), 3(15), 2(20), 0(30)\}$,
 $\{1(2), 2(3), 2(4), 1(5), 2(10), 4(12), 3(15), 4(20), 0(60)\}$,
 $\{1(2), 2(3), 2(4), 4(5), 2(10), 4(12), 3(15), 6(30), 0(60)\}$,
 $\{1(2), 2(3), 2(4), 3(5), 2(10), 4(12), 4(20), 6(30), 0(60)\}$,
 $\{1(2), 2(3), 2(4), 2(5), 4(12), 3(15), 4(20), 6(30), 0(60)\}$,
 $\{1(2), 1(3), 2(4), 2(6), 2(10), 3(15), 4(20), 6(30), 0(60)\}$,
 $\{1(2), 2(3), 2(4), 2(10), 4(12), 3(15), 4(20), 6(30), 0(60)\}$,
 $\{1(2), 1(3), 1(5), 2(6), 4(10), 0(12), 3(15), 2(20), 0(30)\}$,
 $\{1(2), 1(3), 1(5), 2(6), 2(10), 6(12), 3(15), 4(20), 0(60)\}$,
 $\{1(2), 1(3), 4(5), 2(6), 2(10), 6(12), 3(15), 6(30), 0(60)\}$,
 $\{1(2), 1(3), 3(5), 2(6), 2(10), 6(12), 4(20), 6(30), 0(60)\}$,
 $\{1(2), 1(3), 4(5), 2(6), 2(10), 3(15), 10(20), 6(30), 0(60)\}$,
 $\{1(2), 1(3), 2(5), 2(6), 6(12), 3(15), 4(20), 6(30), 0(60)\}$,
 $\{1(2), 1(3), 2(6), 2(10), 6(12), 3(15), 4(20), 6(30), 0(60)\}$,
 $\{1(2), 0(4), 1(5), 4(6), 4(10), 2(12), 3(15), 2(20), 0(30)\}$,
 $\{1(2), 2(4), 1(5), 2(6), 2(10), 4(12), 3(15), 4(20), 0(60)\}$,
 $\{1(2), 2(4), 4(5), 2(6), 2(10), 4(12), 3(15), 6(30), 0(60)\}$,
 $\{1(2), 2(4), 3(5), 2(6), 2(10), 4(12), 4(20), 6(30), 0(60)\}$,
 $\{1(2), 2(4), 2(5), 2(6), 4(12), 3(15), 4(20), 6(30), 0(60)\}$.

$N = 80$: $\{1(2), 2(4), 1(5), 4(8), 2(10), 8(16), 4(20), 8(40), 0(80)\}$.

$N = 108$:

$\{1(2), 1(3), 2(4), 2(6), 3(9), 6(18), 9(27), 18(54), 0(108)\}$,
 $\{1(2), 1(3), 2(4), 2(6), 6(18), 9(27), 12(36), 18(54), 0(108)\}$,
 $\{1(2), 2(3), 2(4), 6(9), 4(12), 9(27), 12(36), 18(54), 0(108)\}$,
 $\{1(2), 2(3), 2(4), 4(12), 6(18), 9(27), 12(36), 18(54), 0(108)\}$,
 $\{1(2), 1(3), 2(6), 6(9), 6(12), 9(27), 12(36), 18(54), 0(108)\}$,
 $\{1(2), 1(3), 2(6), 3(9), 6(18), 9(27), 18(36), 18(54), 0(108)\}$,
 $\{1(2), 1(3), 2(6), 6(12), 6(18), 9(27), 12(36), 18(54), 0(108)\}$,
 $\{1(2), 2(4), 2(6), 6(9), 4(12), 9(27), 12(36), 18(54), 0(108)\}$.

$N = 192$:

$\{1(2), 1(3), 2(4), 2(6), 8(16), 12(24), 16(32), 32(64), 0(192)\}$,
 $\{1(2), 1(3), 2(4), 2(6), 8(16), 12(24), 32(64), 48(96), 0(192)\}$,
 $\{1(2), 1(3), 2(4), 2(6), 12(24), 16(32), 24(48), 32(64), 0(192)\}$,
 $\{1(2), 2(3), 2(4), 4(8), 4(12), 16(32), 24(48), 32(64), 0(192)\}$,
 $\{1(2), 1(3), 2(4), 4(8), 8(16), 8(24), 16(32), 32(64), 0(192)\}$,
 $\{1(2), 1(3), 2(4), 4(8), 8(16), 8(24), 32(64), 48(96), 0(192)\}$,
 $\{1(2), 1(3), 2(4), 4(8), 8(24), 16(32), 24(48), 32(64), 0(192)\}$,
 $\{1(2), 2(3), 2(4), 4(12), 8(16), 12(24), 16(32), 32(64), 0(192)\}$,
 $\{1(2), 2(3), 2(4), 4(12), 8(16), 12(24), 32(64), 48(96), 0(192)\}$,
 $\{1(2), 2(3), 2(4), 4(12), 12(24), 16(32), 24(48), 32(64), 0(192)\}$,
 $\{1(2), 1(3), 2(6), 4(8), 6(12), 16(32), 24(48), 32(64), 0(192)\}$,
 $\{1(2), 1(3), 2(6), 6(12), 8(16), 12(24), 16(32), 32(64), 0(192)\}$,
 $\{1(2), 1(3), 2(6), 6(12), 8(16), 12(24), 32(64), 48(96), 0(192)\}$,
 $\{1(2), 1(3), 2(6), 6(12), 12(24), 16(32), 24(48), 32(64), 0(192)\}$.

$N = 144$:

- $\{1(2), 1(3), 2(4), 2(6), 4(8), 3(9), 8(16), 6(18), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 4(8), 6(9), 8(16), 12(36), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 4(8), 3(9), 8(16), 24(72), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 4(8), 3(9), 6(18), 24(48), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 4(8), 6(9), 12(36), 24(48), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 4(8), 3(9), 24(48), 24(72), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 4(8), 6(18), 12(36), 24(48), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 4(8), 12(18), 24(48), 24(72), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 4(8), 12(36), 24(48), 24(72), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 3(9), 8(16), 6(18), 12(24), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 3(9), 4(16), 6(18), 12(48), 0(72)\},$
- $\{1(2), 1(3), 2(4), 2(6), 3(9), 8(16), 6(18), 36(72), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 6(9), 8(16), 12(24), 12(36), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 3(9), 8(16), 12(24), 24(72), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 6(9), 4(16), 12(36), 12(48), 0(72)\},$
- $\{1(2), 1(3), 2(4), 2(6), 6(9), 8(16), 12(36), 36(72), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 3(9), 6(18), 12(24), 24(48), 0(144)\}.$
- $\{1(2), 1(3), 2(4), 2(6), 3(9), 6(18), 24(48), 36(72), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 6(9), 12(24), 12(36), 24(48), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 3(9), 12(24), 24(48), 24(72), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 6(9), 12(36), 24(48), 36(72), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 8(16), 6(18), 12(24), 12(36), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 8(16), 12(18), 12(24), 24(72), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 4(16), 6(18), 12(36), 12(48), 0(72)\},$
- $\{1(2), 1(3), 2(4), 2(6), 8(16), 6(18), 12(36), 36(72), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 8(16), 12(24), 12(36), 24(72), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 6(18), 12(24), 12(36), 24(48), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 12(18), 12(24), 24(48), 24(72), 0(144)\},$
- $\{1(2), 1(3), 2(4), 2(6), 6(18), 12(36), 24(48), 36(72), 0(144)\},$
- $\{1(2), 2(3), 2(4), 4(8), 3(9), 4(12), 8(16), 6(18), 0(144)\},$
- $\{1(2), 2(3), 2(4), 4(8), 6(9), 4(12), 8(16), 12(36), 0(144)\},$
- $\{1(2), 2(3), 2(4), 4(8), 3(9), 4(12), 8(16), 24(72), 0(144)\},$
- $\{1(2), 2(3), 2(4), 4(8), 3(9), 4(12), 6(18), 24(48), 0(144)\}.$

$\{1(2), 2(3), 2(4), 4(8), 6(9), 4(12), 12(36), 24(48), 0(144)\},$
 $\{1(2), 2(3), 2(4), 4(8), 3(9), 4(12), 24(48), 24(72), 0(144)\},$
 $\{1(2), 1(3), 2(4), 4(8), 3(9), 8(16), 6(18), 8(24), 0(144)\},$
 $\{1(2), 2(3), 2(4), 4(8), 7(9), 8(16), 10(18), 4(36), 0(48)\},$
 $\{1(2), 1(3), 2(4), 4(8), 3(9), 0(16), 6(18), 8(48), 0(72)\},$
 $\{1(2), 2(3), 2(4), 4(8), 3(9), 8(16), 6(18), 16(48), 0(144)\},$
 $\{1(2), 1(3), 2(4), 4(8), 6(9), 8(16), 8(24), 12(36), 0(144)\},$
 $\{1(2), 1(3), 2(4), 4(8), 3(9), 8(16), 8(24), 24(72), 0(144)\},$
 $\{1(2), 1(3), 2(4), 4(8), 6(9), 0(16), 12(36), 8(48), 0(72)\},$
 $\{1(2), 2(3), 2(4), 4(8), 6(9), 8(16), 12(36), 16(48), 0(144)\},$
 $\{1(2), 2(3), 2(4), 4(8), 3(9), 8(16), 16(48), 24(72), 0(144)\},$
 $\{1(2), 1(3), 2(4), 4(8), 3(9), 6(18), 8(24), 24(48), 0(144)\},$
 $\{1(2), 1(3), 2(4), 4(8), 6(9), 8(24), 12(36), 24(48), 0(144)\},$
 $\{1(2), 1(3), 2(4), 4(8), 3(9), 8(24), 24(48), 24(72), 0(144)\},$
 $\{1(2), 2(3), 2(4), 4(8), 4(12), 8(16), 6(18), 12(36), 0(144)\},$
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 $\{1(2), 2(3), 2(4), 4(8), 4(12), 8(16), 12(36), 24(72), 0(144)\},$
 $\{1(2), 2(3), 2(4), 4(8), 4(12), 6(18), 12(36), 24(48), 0(144)\},$
 $\{1(2), 1(3), 2(4), 4(8), 8(16), 6(18), 8(24), 12(36), 0(144)\},$
 $\{1(2), 1(3), 2(4), 4(8), 8(16), 12(18), 8(24), 24(72), 0(144)\},$
 $\{1(2), 1(3), 2(4), 4(8), 0(16), 6(18), 12(36), 8(48), 0(72)\},$
 $\{1(2), 2(3), 2(4), 4(8), 8(16), 6(18), 12(36), 16(48), 0(144)\},$
 $\{1(2), 2(3), 2(4), 4(8), 8(16), 12(18), 16(48), 24(72), 0(144)\}.$
 $\{1(2), 2(3), 2(4), 4(8), 8(16), 12(36), 16(48), 24(72), 0(144)\},$
 $\{1(2), 1(3), 2(4), 4(8), 6(18), 8(24), 12(36), 24(48), 0(144)\},$
 $\{1(2), 1(3), 2(4), 4(8), 12(18), 8(24), 24(48), 24(72), 0(144)\},$
 $\{1(2), 1(3), 2(4), 4(8), 8(24), 12(36), 24(48), 24(72), 0(144)\},$
 $\{1(2), 2(3), 2(4), 3(9), 4(12), 8(16), 6(18), 12(24), 0(144)\},$
 $\{1(2), 2(3), 2(4), 3(9), 4(12), 4(16), 6(18), 12(48), 0(72)\},$
 $\{1(2), 2(3), 2(4), 3(9), 4(12), 8(16), 6(18), 36(72), 0(144)\},$
 $\{1(2), 2(3), 2(4), 6(9), 4(12), 8(16), 12(24), 12(36), 0(144)\},$
 $\{1(2), 2(3), 2(4), 3(9), 4(12), 8(16), 12(24), 24(72), 0(144)\},$
 $\{1(2), 2(3), 2(4), 6(9), 4(12), 4(16), 12(36), 12(48), 0(72)\},$
 $\{1(2), 2(3), 2(4), 6(9), 4(12), 8(16), 12(36), 36(72), 0(144)\}.$

$\{1(2), 2(3), 2(4), 3(9), 4(12), 6(18), 12(24), 24(48), 0(144)\},$
 $\{1(2), 2(3), 2(4), 3(9), 4(12), 6(18), 24(48), 36(72), 0(144)\},$
 $\{1(2), 2(3), 2(4), 7(9), 8(16), 10(18), 12(24), 4(36), 0(48)\},$
 $\{1(2), 2(3), 2(4), 4(12), 8(16), 6(18), 12(24), 12(36), 0(144)\},$
 $\{1(2), 2(3), 2(4), 4(12), 8(16), 12(18), 12(24), 24(72), 0(144)\},$
 $\{1(2), 2(3), 2(4), 4(12), 4(16), 6(18), 12(36), 12(48), 0(72)\},$
 $\{1(2), 2(3), 2(4), 4(12), 8(16), 6(18), 12(36), 36(72), 0(144)\},$
 $\{1(2), 2(3), 2(4), 4(12), 8(16), 12(24), 12(36), 24(72), 0(144)\},$
 $\{1(2), 2(3), 2(4), 4(12), 6(18), 12(24), 12(36), 24(48), 0(144)\},$
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 $\{1(2), 1(3), 2(6), 4(8), 3(9), 6(12), 8(16), 6(18), 0(144)\},$
 $\{1(2), 1(3), 2(6), 4(8), 6(9), 6(12), 8(16), 12(36), 0(144)\}.$
 $\{1(2), 1(3), 2(6), 4(8), 3(9), 8(16), 0(18), 6(36), 0(48)\},$
 $\{1(2), 1(3), 2(6), 4(8), 3(9), 8(16), 6(18), 18(36), 0(144)\},$
 $\{1(2), 1(3), 2(6), 4(8), 3(9), 6(18), 18(36), 24(48), 0(144)\},$
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 $\{1(2), 1(3), 2(6), 4(8), 6(12), 8(16), 12(18), 24(72), 0(144)\},$
 $\{1(2), 1(3), 2(6), 4(8), 6(12), 8(16), 12(36), 24(72), 0(144)\},$
 $\{1(2), 1(3), 2(6), 4(8), 6(12), 6(18), 12(36), 24(48), 0(144)\},$
 $\{1(2), 1(3), 2(6), 3(9), 6(12), 8(16), 6(18), 12(24), 0(144)\},$
 $\{1(2), 1(3), 2(6), 3(9), 6(12), 4(16), 6(18), 12(48), 0(72)\},$
 $\{1(2), 1(3), 2(6), 3(9), 6(12), 8(16), 6(18), 36(72), 0(144)\},$
 $\{1(2), 1(3), 2(6), 6(9), 6(12), 8(16), 12(24), 12(36), 0(144)\},$
 $\{1(2), 1(3), 2(6), 3(9), 6(12), 8(16), 12(24), 24(72), 0(144)\},$
 $\{1(2), 1(3), 2(6), 6(9), 6(12), 4(16), 12(36), 12(48), 0(72)\},$
 $\{1(2), 1(3), 2(6), 6(9), 6(12), 8(16), 12(36), 36(72), 0(144)\},$
 $\{1(2), 1(3), 2(6), 3(9), 6(12), 6(18), 12(24), 24(48), 0(144)\},$
 $\{1(2), 1(3), 2(6), 3(9), 6(12), 6(18), 24(48), 36(72), 0(144)\}.$
 $\{1(2), 1(3), 2(6), 3(9), 8(16), 0(18), 12(24), 6(36), 0(48)\},$
 $\{1(2), 1(3), 2(6), 3(9), 8(16), 6(18), 12(24), 18(36), 0(144)\},$
 $\{1(2), 1(3), 2(6), 3(9), 4(16), 6(18), 18(36), 12(48), 0(72)\},$
 $\{1(2), 1(3), 2(6), 3(9), 8(16), 6(18), 18(36), 36(72), 0(144)\},$
 $\{1(2), 1(3), 2(6), 3(9), 6(18), 12(24), 18(36), 24(48), 0(144)\}.$

$\{1(2), 1(3), 2(6), 6(12), 8(16), 6(18), 12(24), 12(36), 0(144)\}$,
 $\{1(2), 1(3), 2(6), 6(12), 8(16), 12(18), 12(24), 24(72), 0(144)\}$,
 $\{1(2), 1(3), 2(6), 6(12), 4(16), 6(18), 12(36), 12(48), 0(72)\}$,
 $\{1(2), 1(3), 2(6), 6(12), 8(16), 6(18), 12(36), 36(72), 0(144)\}$,
 $\{1(2), 1(3), 2(6), 6(12), 8(16), 12(24), 12(36), 24(72), 0(144)\}$,
 $\{1(2), 2(4), 2(6), 4(8), 3(9), 4(12), 8(16), 6(18), 0(144)\}$,
 $\{1(2), 2(4), 2(6), 4(8), 6(9), 4(12), 8(16), 12(36), 0(144)\}$,
 $\{1(2), 2(4), 2(6), 4(8), 3(9), 4(12), 8(16), 24(72), 0(144)\}$,
 $\{1(2), 2(4), 2(6), 4(8), 3(9), 4(12), 6(18), 24(48), 0(144)\}$,
 $\{1(2), 2(4), 2(6), 4(8), 6(9), 4(12), 12(36), 24(48), 0(144)\}$,
 $\{1(2), 2(4), 2(6), 4(8), 3(9), 4(12), 24(48), 24(72), 0(144)\}$,
 $\{1(2), 2(4), 4(6), 4(8), 3(9), 8(16), 6(18), 8(24), 0(144)\}$,
 $\{1(2), 2(4), 2(6), 4(8), 7(9), 8(16), 10(18), 4(36), 0(48)\}$,
 $\{1(2), 2(4), 4(6), 4(8), 3(9), 0(16), 6(18), 8(48), 0(72)\}$,
 $\{1(2), 2(4), 2(6), 4(8), 3(9), 8(16), 6(18), 16(48), 0(144)\}$,
 $\{1(2), 2(4), 4(6), 4(8), 6(9), 8(16), 8(24), 12(36), 0(144)\}$,
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 $\{1(2), 2(4), 7(9), 8(12), 8(16), 10(18), 12(24), 4(36), 0(48)\}.$

§4. COVERS WITH $k = 10$ AND $\{n_1, n_2, n_3\} = \{2, 3, 4\}$

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