${\bf Free Products Group Lattice}$

August 5, 2018

Group: $C_2 * C_3$

Searching up to index : 2500

How many normal groups are found : 527

Total Time in s : 789.2

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| 3 | 3 | [1] |
| 4 | 6 | [2, 3] |
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| 6 | 12 | [3] |
| 7 | 18 | $[\ 4,\ 5\]$ |
| 8 | 24 | $[\ 4,\ 6\]$ |
| 9 | 24 | [5] |
| 10 | 42 | [4] |
| 11 | 42 | [4] |
| 12 | 48 | [9] |
| 13 | 48 | [8] |
| 14 | 54 | [7] |
| 15 | 60 | [1] |
| 16 | 72 | [7, 9] |
| 17 | 72 | [7,8] |
| 18 | 78 | [4] |
| 19 | 78 | [4] |
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| 40 | 192 | [12, 21] |
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| 42 | 216 | [14, 16] |
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| 76 | 384 | [40] |
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| 78 | 402 | [4] |
| 79 | 432 | [12] |
| 80 | 432 | [12] |
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| 113 | 576 | [50] |
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| 115 | 582 | [4] |
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| 117 | 600 | [9, 30] |
| 118 | 618 | [4] |
| 119 | 618 | [4] |
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| 199 | 1008 | [4, 60] |
| 200 | 1008 | [5, 61] |
| 201 | 1008 | [4, 61] |
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| 239 | 200 | [40, 42] |
| 240 | 200 | [40, 41] |
| 241 | 200 | [39, 109] |
| 242 | 200 | [40, 109] |
| 243 | 200 | [41, 108] |
| 244 | 200 | [41, 42, 106] |
| 245 | 200 | [42, 107] |
| 246 | 200 | [43, 109] |
| 247 | 202 | [4] |
| 248 | 204 | [13, 70, 110] |
| 249 | 206 | $[\ 4\]$ |
| 250 | 208 | [15, 111] |
| 251 | 208 | [16, 111, 114, 115] |
| 252 | 208 | $[\ 16,\ 112\]$ |
| 253 | 208 | [16, 113] |
| 254 | 208 | [17, 111] |
| 255 | 210 | [29, 44, 73] |
| 256 | 212 | [5, 116] |
| 257 | 212 | [7] |
| 258 | 212 | [7] |
| 259 | 214 | [4] |
| 260 | 216 | [24, 75] |
| 261 | 216 | [26, 74] |
| 262 | 216 | [55, 76] |
| 263 | 216 | [77, 118] |
| 264 | 216 | [78, 118] |
| 265 | 216 | [79, 118] |
| 266 | 216 | [74] |
| | | |

| 267 | 216 | [75, 117] |
|-----|-----|---------------------------|
| 268 | 218 | $[\ 4\]$ |
| 269 | 220 | [21, 45, 119] |
| 270 | 222 | [8, 80] |
| 271 | 224 | [30, 121] |
| 272 | 224 | [31, 121] |
| 273 | 224 | [32, 120] |
| 274 | 224 | [33, 120, 121, 122] |
| 275 | 224 | [34, 120] |
| 276 | 226 | $[\ 4\]$ |
| 277 | 228 | [13, 81, 123] |
| 278 | 230 | [12, 46] |
| 279 | 232 | [9, 124] |
| 280 | 232 | [10, 124] |
| 281 | 232 | [10, 125] |
| 282 | 232 | [10, 126] |
| 283 | 232 | [11, 124] |
| 284 | 234 | [18, 82] |
| 285 | 236 | [5, 127] |
| 286 | 238 | [14, 35] |
| 287 | 240 | [47, 60, 132] |
| 288 | 240 | [49, 86, 130] |
| 289 | 240 | [49, 85, 131] |
| 290 | 240 | [48, 83, 134] |
| 291 | 240 | [49, 84, 133, 134, 135] |
| 292 | 240 | [50, 87, 134] |
| 293 | 240 | [5, 128] |
| 294 | 240 | [6, 129] |
| 295 | 240 | [5, 129] |
| 296 | 240 | [7, 129] |
| 297 | 242 | [22] |
| 298 | 244 | [5, 136] |
| 299 | 244 | [7] |
| 300 | 244 | [7] |
| 301 | 246 | [8, 88] |
| 302 | 248 | [9, 137] |
| 303 | 248 | [10, 137] |
| 304 | 248 | [11, 137] |
| | | |

| 305 | 250 | [51] |
|-----|-------------------|-----------------------|
| 306 | $\frac{250}{252}$ | |
| 307 | $\frac{252}{254}$ | [37, 89, 138] |
| H | $\frac{254}{256}$ | [139, 140, 145] |
| 308 | | |
| 309 | 256 | [139, 147, 149] |
| 310 | 256 | [139] |
| 311 | 256 | [140, 143, 144] |
| 312 | 256 | [140] |
| 313 | 256 | [140, 141, 142] |
| 314 | 256 | [140] |
| 315 | 256 | [140] |
| 316 | 256 | [140] |
| 317 | 256 | [141] |
| 318 | 256 | [141] |
| 319 | 256 | [142] |
| 320 | 256 | [142] |
| 321 | 256 | [144] |
| 322 | 256 | [144] |
| 323 | 256 | [146] |
| 324 | 256 | [146, 147, 148] |
| 325 | 256 | [146] |
| 326 | 256 | [147] |
| 327 | 258 | [8, 90] |
| 328 | 260 | [19, 54] |
| 329 | 260 | [19, 53] |
| 330 | 260 | [20, 53] |
| 331 | 260 | [20, 54] |
| 332 | 260 | [21, 52, 150] |
| 333 | 262 | [4] |
| 334 | 264 | [23, 69] |
| 335 | 264 | [24, 92, 151] |
| 336 | 264 | [25, 91, 151] |
| 337 | 264 | [26, 93, 151] |
| 338 | 266 | [14, 38] |
| 339 | 268 | [5, 152] |
| 340 | 270 | [55, 94] |
| 341 | 272 | [15, 153] |
| 342 | 272 | [16, 153, 154, 157] |

| 343 | 272 | [16, 155] |
|-----|-----|------------------------|
| 344 | 272 | [16, 156] |
| 345 | 272 | [17, 153] |
| 346 | 274 | [4] |
| 347 | 276 | [13, 95, 158] |
| 348 | 278 | [4] |
| 349 | 280 | [42, 57] |
| 350 | 280 | [41, 57] |
| 351 | 280 | [39, 56, 159] |
| 352 | 280 | [40, 57, 159] |
| 353 | 280 | [43, 58, 159] |
| 354 | 282 | [8, 96] |
| 355 | 284 | [5, 160] |
| 356 | 286 | [22, 27] |
| 357 | 288 | [30, 161] |
| 358 | 288 | $[\ 30,\ 162\]$ |
| 359 | 288 | [101, 166] |
| 360 | 288 | [31, 161] |
| 361 | 288 | $[\ 31,\ 162\]$ |
| 362 | 288 | [102, 166] |
| 363 | 288 | [103, 165] |
| 364 | 288 | [33, 161] |
| 365 | 288 | $[\ 33,\ 162\]$ |
| 366 | 288 | [33, 164] |
| 367 | 288 | $[\ 33,\ 163\]$ |
| 368 | 288 | [100, 165, 166, 167] |
| 369 | 288 | [104, 165] |
| 370 | 288 | [77, 97, 168] |
| 371 | 288 | [78, 98, 168] |
| 372 | 288 | [79, 99, 168] |
| 373 | 290 | [12, 59] |
| 374 | 292 | [5, 169] |
| 375 | 292 | [7] |
| 376 | 292 | [7] |
| 377 | 294 | [44, 105] |
| 378 | 296 | [9, 170] |
| 379 | 296 | [10, 171] |
| 380 | 296 | [10, 172] |
| | | |

| 381 | 296 | [10, 170] |
|-----|-----|-----------------------|
| 382 | 296 | [11, 170] |
| 383 | 298 | [4] |
| 384 | 300 | [60, 109, 173] |
| 385 | 302 | [4] |
| 386 | 304 | [15, 174] |
| 387 | 304 | [16, 174, 175, 176] |
| 388 | 304 | [17, 174] |
| 389 | 306 | [18, 110] |
| 390 | 308 | [28, 45, 177] |
| 391 | 310 | [12, 61] |
| 392 | 312 | [23, 82] |
| 393 | 312 | [24, 112] |
| 394 | 312 | [24, 113] |
| 395 | 312 | [24, 114, 178] |
| 396 | 312 | [25, 111, 178] |
| 397 | 312 | [26, 115, 178] |
| 398 | 314 | [4] |
| 399 | 316 | [5, 179] |
| 400 | 318 | [8, 116] |
| 401 | 320 | [19] |
| 402 | 320 | [20] |
| 403 | 320 | [21, 180] |
| 404 | 320 | [66, 181] |
| 405 | 320 | [66, 182] |
| 406 | 320 | [66, 189, 190, 191] |
| 407 | 320 | [62, 183] |
| 408 | 320 | [62, 184] |
| 409 | 320 | [62, 185] |
| 410 | 320 | [63, 183] |
| 411 | 320 | [63, 185] |
| 412 | 320 | [63, 184] |
| 413 | 320 | [64, 181, 184, 188] |
| 414 | 320 | [64, 182, 183, 186] |
| 415 | 320 | [64, 185, 187, 190] |
| 416 | 320 | [65, 189] |
| 417 | 320 | [67, 189] |
| 418 | 320 | [68, 182] |
| | | |

| 430 | 222 | [00 101] |
|-----|-----|----------------------------|
| 419 | 320 | [68, 181] |
| 420 | 320 | [68, 190] |
| 421 | 320 | [180] |
| 422 | 320 | [180] |
| 423 | 322 | [14, 46] |
| 424 | 324 | [36] |
| 425 | 324 | [118, 192] |
| 426 | 326 | [4] |
| 427 | 328 | [9, 193] |
| 428 | 328 | [10, 194] |
| 429 | 328 | [10, 193] |
| 430 | 328 | [10, 195] |
| 431 | 328 | [11, 193] |
| 432 | 330 | [29, 69, 119] |
| 433 | 332 | [5, 196] |
| 434 | 334 | [4] |
| 435 | 336 | [3] |
| 436 | 336 | [3] |
| 437 | 336 | [3] |
| 438 | 336 | [47, 89, 198] |
| 439 | 336 | [48, 120, 200] |
| 440 | 336 | [49, 121, 199, 200, 201] |
| 441 | 336 | [50, 122, 200] |
| 442 | 336 | [2, 197] |
| 443 | 336 | [4, 197] |
| 444 | 336 | [3, 197] |
| 445 | 338 | [27] |
| 446 | 340 | [19, 72] |
| 447 | 340 | [19, 71] |
| 448 | 340 | [20, 71] |
| 449 | 340 | [20, 72] |
| 450 | 340 | [21, 70, 202] |
| 451 | 342 | [18, 123] |
| 452 | 344 | [9, 203] |
| 453 | 344 | [10, 203] |
| 454 | 344 | [11, 203] |
| 455 | 346 | [4] |
| 456 | 348 | [13, 124, 204] |
| | | |

| 457 | 350 | [51, 73] |
|-----|-----|------------------------------|
| 458 | 352 | [30, 206] |
| 459 | 352 | [31, 206] |
| 460 | 352 | [32, 205] |
| 461 | 352 | [33, 205, 206, 207] |
| 462 | 352 | [34, 205] |
| 463 | 354 | [8, 127] |
| 464 | 356 | [5, 208] |
| 465 | 356 | [7] |
| 466 | 356 | [7] |
| 467 | 358 | [4] |
| 468 | 360 | [1] |
| 469 | 360 | [77, 130] |
| 470 | 360 | [77, 131] |
| 471 | 360 | [40,75] |
| 472 | 360 | [78, 134, 211] |
| 473 | 360 | [77, 133, 211] |
| 474 | 360 | $[\ 41,\ 75,\ 210\]$ |
| 475 | 360 | [42, 75, 209] |
| 476 | 360 | [43, 74] |
| 477 | 360 | [79, 135, 211] |
| 478 | 360 | [76, 94, 132] |
| 479 | 360 | [8, 128] |
| 480 | 362 | $[\ 4\]$ |
| 481 | 364 | $[\ 28,\ 52,\ 212\]$ |
| 482 | 366 | [8, 136] |
| 483 | 368 | [15, 213] |
| 484 | 368 | $[\ 16,\ 213,\ 214,\ 215\]$ |
| 485 | 368 | [17, 213] |
| 486 | 370 | [12, 80] |
| 487 | 372 | [13, 137, 216] |
| 488 | 374 | [22, 35] |
| 489 | 376 | [9, 217] |
| 490 | 376 | [10, 217] |
| 491 | 376 | [11, 217] |
| 492 | 378 | [55, 138] |
| 493 | 380 | [21, 81, 218] |
| 494 | 382 | [4] |
| | | |

| П . | | |
|-----|-----|------------------------|
| 495 | 384 | [219] |
| 496 | 384 | [101, 221] |
| 497 | 384 | [102, 221] |
| 498 | 384 | [103, 220] |
| 499 | 384 | [100, 220, 221, 222] |
| 500 | 384 | [104, 220] |
| 501 | 384 | [140, 224, 225, 226] |
| 502 | 384 | [147, 223, 227, 228] |
| 503 | 384 | [97, 219] |
| 504 | 384 | [98, 219] |
| 505 | 384 | [99] |
| 506 | 384 | [99, 219] |
| 507 | 384 | [99] |
| 508 | 384 | [139, 223, 224, 229] |
| 509 | 384 | [141, 225] |
| 510 | 384 | [142, 225] |
| 511 | 384 | [143, 226] |
| 512 | 384 | [144, 226] |
| 513 | 384 | [145, 224] |
| 514 | 384 | [146, 227] |
| 515 | 384 | [148, 227] |
| 516 | 384 | [149, 223] |
| 517 | 384 | [219] |
| 518 | 384 | [219] |
| 519 | 384 | [219] |
| 520 | 384 | [221, 230, 231] |
| 521 | 384 | [221, 232, 233] |
| 522 | 384 | [221] |
| 523 | 384 | [221] |
| 524 | 386 | [4] |
| 525 | 388 | [5, 234] |
| 526 | 388 | [7] |
| 527 | 388 | [7] |
| 528 | 390 | [29, 82, 150] |
| 529 | 392 | [10, 235] |
| 530 | 392 | [11] |
| 531 | 392 | [56, 236] |
| 532 | 392 | [57, 236] |
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| 533 392 [58, 236] 534 394 [4] 535 396 [37, 151, 237] 536 398 [4] 537 400 [16, 238] 538 400 [84, 86, 239] 539 400 [84, 85, 240] 540 400 [83, 241] 541 400 [84, 241, 242, 246] 542 400 [87, 241] 543 400 [85, 243] 544 400 [85, 86, 244] | |
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| 535 396 [37, 151, 237] 536 398 [4] 537 400 [16, 238] 538 400 [84, 86, 239] 539 400 [84, 85, 240] 540 400 [83, 241] 541 400 [84, 241, 242, 246] 542 400 [87, 241] 543 400 [85, 243] | |
| 536 398 [4] 537 400 [16, 238] 538 400 [84, 86, 239] 539 400 [84, 85, 240] 540 400 [83, 241] 541 400 [84, 241, 242, 246] 542 400 [87, 241] 543 400 [85, 243] | |
| 537 400 [16, 238] 538 400 [84, 86, 239] 539 400 [84, 85, 240] 540 400 [83, 241] 541 400 [84, 241, 242, 246] 542 400 [87, 241] 543 400 [85, 243] | |
| 538 400 [84, 86, 239] 539 400 [84, 85, 240] 540 400 [83, 241] 541 400 [84, 241, 242, 246] 542 400 [87, 241] 543 400 [85, 243] | |
| 539 400 [84, 85, 240] 540 400 [83, 241] 541 400 [84, 241, 242, 246] 542 400 [87, 241] 543 400 [85, 243] | |
| 540 400 [83, 241] 541 400 [84, 241, 242, 246] 542 400 [87, 241] 543 400 [85, 243] | |
| 541 400 [84, 241, 242, 246] 542 400 [87, 241] 543 400 [85, 243] | |
| 542 400 [87, 241] 543 400 [85, 243] | |
| 543 400 [85, 243] | |
| L / 1 | |
| 544 400 [85 86 244] | |
| | |
| 545 400 [86, 245] | |
| 546 402 [8, 152] | |
| 547 404 [5, 247] | |
| 548 404 [7] | |
| 549 404 [7] | |
| 550 406 [14, 59] | |
| 551 408 [23, 110] | |
| 552 408 [24, 156] | |
| 553 408 [24, 154, 248] | |
| 554 408 [24, 155] | |
| 555 408 [25, 153, 248] | |
| 556 408 [26, 157, 248] | |
| 557 410 [12, 88] | |
| 558 412 [5, 249] | |
| 559 414 [18, 158] | |
| 560 416 [30, 252] | |
| 561 416 [30, 253] | |
| 562 416 [30, 251] | |
| 563 416 [31, 252] | |
| 564 416 [31, 251] | |
| 565 416 [31, 253] | |
| 566 416 [32, 250] | |
| 567 416 [33, 252] | |
| 568 416 [33, 250, 251, 254] | |
| 569 416 [33, 253] | |
| 570 416 [34, 250] | |

| 571 418 [22, 38] 572 420 [60, 89, 159, 255] 573 422 [4] 574 424 [9, 256] 575 424 [10, 257] 576 424 [10, 258] 578 424 [11, 256] 579 426 [8, 160] 580 428 [5, 259] 581 430 [12, 90] 582 432 [49, 161, 260] 583 432 [49, 162, 261] 584 432 [50, 163] 585 432 [50, 164] 586 432 [165, 264] 587 432 [166, 263, 264, 265] 588 432 [167, 264] 589 432 [161, 267] 591 432 [162, 266] 592 432 [163] 593 432 [164] 594 434 [14, 61] 595 436 [7] | | 44.0 | f 22 22 1 |
|--|----------|------|----------------------------------|
| 573 422 [4] 574 424 [9, 256] 575 424 [10, 257] 576 424 [10, 258] 577 424 [10, 258] 578 424 [11, 256] 579 426 [8, 160] 580 428 [5, 259] 581 430 [12, 90] 582 432 [49, 161, 260] 583 432 [49, 162, 261] 584 432 [50, 163] 585 432 [165, 264] 586 432 [165, 264] 587 432 [166, 263, 264, 265] 588 432 [167, 264] 589 432 [161, 267] 591 432 [162, 266] 592 432 [163] 593 432 [164] 594 434 [14, 61] 595 436 [5, 268] 596 436 [7] <td< td=""><td>571</td><td>418</td><td>[22, 38]</td></td<> | 571 | 418 | [22, 38] |
| 574 424 [9, 256] 575 424 [10, 257] 576 424 [10, 258] 577 424 [10, 258] 578 424 [11, 256] 579 426 [8, 160] 580 428 [5, 259] 581 430 [12, 90] 582 432 [49, 161, 260] 583 432 [49, 162, 261] 584 432 [50, 163] 585 432 [165, 264] 586 432 [165, 264] 587 432 [166, 263, 264, 265] 588 432 [167, 264] 589 432 [161, 267] 591 432 [162, 266] 592 432 [163] 593 432 [164] 594 434 [14, 61] 595 436 [5, 268] 596 436 [7] 598 438 [8, 169] | + | | |
| 575 424 [10, 256] 576 424 [10, 257] 577 424 [10, 258] 578 424 [11, 256] 579 426 [8, 160] 580 428 [5, 259] 581 430 [12, 90] 582 432 [49, 161, 260] 583 432 [49, 162, 261] 584 432 [50, 163] 585 432 [50, 164] 586 432 [165, 264] 587 432 [166, 263, 264, 265] 588 432 [167, 264] 589 432 [161, 267] 591 432 [162, 266] 592 432 [163] 593 432 [164] 594 434 [14, 61] 595 436 [5, 268] 596 436 [7] 598 438 [8, 169] 599 440 [42, 92] | | | L . |
| 576 424 [10, 257] 577 424 [10, 258] 578 424 [11, 256] 579 426 [8, 160] 580 428 [5, 259] 581 430 [12, 90] 582 432 [49, 161, 260] 583 432 [49, 162, 261] 584 432 [50, 163] 585 432 [165, 264] 586 432 [166, 263, 264, 265] 588 432 [167, 264] 589 432 [161, 267] 591 432 [162, 266] 592 432 [163] 593 432 [164] 594 434 [14, 61] 595 436 [7] 596 436 [7] 597 436 [7] 598 438 [8, 169] 599 440 [42, 92] 600 440 [41, 92] 601 <td>H</td> <td></td> <td>• • •</td> | H | | • • • |
| 577 424 [10, 258] 578 424 [11, 256] 579 426 [8, 160] 580 428 [5, 259] 581 430 [12, 90] 582 432 [49, 161, 260] 583 432 [50, 163] 584 432 [50, 164] 585 432 [165, 264] 586 432 [166, 263, 264, 265] 588 432 [167, 264] 589 432 [167, 264] 589 432 [161, 267] 591 432 [162, 266] 592 432 [163] 593 432 [164] 594 434 [14, 61] 595 436 [5, 268] 596 436 [7] 597 436 [7] 598 438 [8, 169] 599 440 [42, 92] 600 440 [49, 92, 269] 6 | <u> </u> | | |
| 578 424 [11, 256] 579 426 [8, 160] 580 428 [5, 259] 581 430 [12, 90] 582 432 [49, 161, 260] 583 432 [50, 163] 584 432 [50, 164] 586 432 [165, 264] 587 432 [166, 263, 264, 265] 588 432 [167, 264] 589 432 [118, 168, 262] 590 432 [162, 266] 591 432 [163] 592 432 [164] 594 432 [164] 594 434 [14, 61] 595 436 [5, 268] 596 436 [7] 598 438 [8, 169] 599 440 [42, 92] 600 440 [41, 92] 601 440 [39, 91, 269] 602 440 [43, 93, 269] | 576 | | [10, 257] |
| 579 426 [8, 160] 580 428 [5, 259] 581 430 [12, 90] 582 432 [49, 161, 260] 583 432 [50, 163] 584 432 [50, 164] 585 432 [165, 264] 586 432 [166, 263, 264, 265] 588 432 [167, 264] 589 432 [118, 168, 262] 590 432 [161, 267] 591 432 [163] 592 432 [163] 593 432 [164] 594 434 [14, 61] 595 436 [5, 268] 596 436 [7] 598 438 [8, 169] 599 440 [42, 92] 600 440 [41, 92] 601 440 [39, 91, 269] 602 440 [43, 93, 269] 604 442 [27, 35] 605 444 [13, 170, 270] 606 446 <t< td=""><td>577</td><td></td><td>[10, 258]</td></t<> | 577 | | [10, 258] |
| 580 428 [5, 259] 581 430 [12, 90] 582 432 [49, 161, 260] 583 432 [49, 162, 261] 584 432 [50, 163] 585 432 [50, 164] 586 432 [165, 264] 587 432 [166, 263, 264, 265] 588 432 [167, 264] 589 432 [18, 168, 262] 590 432 [161, 267] 591 432 [163] 592 432 [164] 594 434 [14, 61] 595 436 [5, 268] 596 436 [7] 598 438 [8, 169] 599 440 [42, 92] 600 440 [41, 92] 601 440 [39, 91, 269] 602 440 [40, 92, 269] 603 440 [43, 93, 269] 604 442 [27, 35] | 578 | 424 | [11, 256] |
| 581 430 [12, 90] 582 432 [49, 161, 260] 583 432 [49, 162, 261] 584 432 [50, 163] 585 432 [50, 164] 586 432 [165, 264] 587 432 [166, 263, 264, 265] 588 432 [167, 264] 589 432 [161, 267] 590 432 [162, 266] 591 432 [163] 593 432 [164] 594 434 [14, 61] 595 436 [5, 268] 596 436 [7] 597 436 [7] 598 438 [8, 169] 599 440 [42, 92] 600 440 [41, 92] 601 440 [39, 91, 269] 602 440 [40, 92, 269] 603 440 [43, 93, 269] 604 442 [27, 35] 605 444 [13, 170, 270] 606 446 | 579 | | Ε , |
| 582 432 [49, 161, 260] 583 432 [49, 162, 261] 584 432 [50, 163] 585 432 [50, 164] 586 432 [165, 264] 587 432 [166, 263, 264, 265] 588 432 [167, 264] 589 432 [161, 267] 590 432 [162, 266] 591 432 [163] 593 432 [164] 594 434 [14, 61] 595 436 [5, 268] 596 436 [7] 598 438 [8, 169] 599 440 [42, 92] 600 440 [41, 92] 601 440 [39, 91, 269] 602 440 [40, 92, 269] 603 440 [43, 93, 269] 604 442 [27, 35] 605 444 [13, 170, 270] 606 446 [4] 607 448 [66, 273, 274, 275] | 580 | 428 | [5, 259] |
| 583 432 [49, 162, 261] 584 432 [50, 163] 585 432 [50, 164] 586 432 [165, 264] 587 432 [166, 263, 264, 265] 588 432 [167, 264] 589 432 [18, 168, 262] 590 432 [161, 267] 591 432 [162, 266] 592 432 [163] 593 432 [164] 594 434 [14, 61] 595 436 [5, 268] 596 436 [7] 598 438 [8, 169] 599 440 [42, 92] 600 440 [41, 92] 601 440 [39, 91, 269] 602 440 [40, 92, 269] 603 440 [43, 93, 269] 604 442 [27, 35] 605 444 [13, 170, 270] 606 446 [4] 607 448 [66, 273, 274, 275] | 581 | 430 | [12, 90] |
| 584 432 [50, 163] 585 432 [50, 164] 586 432 [165, 264] 587 432 [166, 263, 264, 265] 588 432 [167, 264] 589 432 [161, 267] 590 432 [162, 266] 591 432 [163] 593 432 [164] 594 434 [14, 61] 595 436 [5, 268] 596 436 [7] 597 436 [7] 598 438 [8, 169] 599 440 [42, 92] 600 440 [41, 92] 601 440 [40, 92, 269] 602 440 [43, 93, 269] 604 442 [27, 35] 605 444 [13, 170, 270] 606 446 [4] 607 448 [66, 273, 274, 275] | 582 | 432 | [49, 161, 260] |
| 585 432 [50, 164] 586 432 [165, 264] 587 432 [166, 263, 264, 265] 588 432 [167, 264] 589 432 [118, 168, 262] 590 432 [161, 267] 591 432 [162, 266] 592 432 [163] 593 432 [164] 594 434 [14, 61] 595 436 [5, 268] 596 436 [7] 598 438 [8, 169] 599 440 [42, 92] 600 440 [41, 92] 601 440 [39, 91, 269] 602 440 [40, 92, 269] 603 440 [43, 93, 269] 604 442 [27, 35] 605 444 [13, 170, 270] 606 446 [4] 607 448 [66, 273, 274, 275] | 583 | | [49, 162, 261] |
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| 682 498 [8, 196] | 680 | 496 | [16, 302, 303, 304] |
| . , , | 681 | 496 | [17, 302] |
| 683 500 [106 107] | 682 | 498 | [8, 196] |
| [100, 107] | 683 | 500 | [106, 107] |
| 684 500 [106, 108] | 684 | 500 | [106, 108] |

| 685 | 500 | [106] |
|-----|-----|--------------|
| 686 | 500 | [107] |
| 687 | 500 | [108] |
| 688 | 500 | [109, 305] |

Group : $C_2 * C_5$ Searching up to index : 2000

How many normal groups are found : 205

Total Time in s: 830.3

| Number | Index | Supergroups |
|--------|-------|-------------|
| 1 | 1 | [] |
| 2 | 2 | [1] |
| 3 | 5 | [1] |
| 4 | 10 | [2] |
| 5 | 10 | [2, 3] |
| 6 | 50 | [4, 5] |
| 7 | 60 | [1] |
| 8 | 60 | [1] |
| 9 | 80 | [3] |
| 10 | 110 | [5] |
| 11 | 110 | [5] |
| 12 | 110 | [5] |
| 13 | 110 | [5] |
| 14 | 120 | [2] |
| 15 | 120 | [2] |
| 16 | 120 | [2, 7] |
| 17 | 120 | [2, 8] |
| 18 | 160 | [5, 9] |
| 19 | 160 | [4] |
| 20 | 160 | [9] |
| 21 | 160 | [9] |
| 22 | 240 | [14] |
| 23 | 240 | [15] |
| 24 | 240 | [16] |
| 25 | 240 | [17] |

| П | | |
|---------|-----|----------------|
| 26 | 250 | [6] |
| 27 | 300 | $[\ 3,\ 7\]$ |
| 28 | 300 | $[\ 3,\ 8\]$ |
| 29 | 310 | [5] |
| 30 | 310 | [5] |
| 31 | 310 | [5] |
| 32 | 310 | [5] |
| 33 | 320 | [18] |
| 34 | 320 | [18] |
| 35 | 320 | [18, 20, 21] |
| 36 | 320 | [19] |
| 37 | 320 | [19] |
| 38 | 320 | [19] |
| 39 | 360 | [1] |
| 40 | 360 | [1] |
| 41 | 410 | [5] |
| 42 | 410 | [5] |
| 43 | 410 | [5] |
| 44 | 410 | [5] |
| 45 | 550 | [6, 11] |
| 46 | 550 | [6, 12] |
| 47 | 550 | [6, 13] |
| 48 | 550 | [6, 10] |
| 49 | 600 | [4, 16] |
| 50 | 600 | [5, 16, 27] |
| 51 | 600 | [4, 17] |
| 52 | 600 | [5, 17, 28] |
| 53 | 600 | [5, 14] |
| 54 | 600 | [4, 14] |
| 55 | 600 | [5, 15] |
| 56 | 600 | [4, 15] |
| 57 | 610 | [5] |
| 58 | 610 | [5] |
| 59 | 610 | [5] |
| 60 | 610 | [5] |
| 61 | 640 | [33, 34, 35] |
| 62 | 640 | [36, 37, 38] |
| 63 | 660 | [1] |
| | | |

| 65 660 [1] 66 660 [1] 67 660 [1] 68 660 [1] 69 710 [5] 70 710 [5] 71 710 [5] 72 710 [5] 73 720 [2] 74 720 [2] 75 720 [2,39] 76 720 [2] 77 720 [2] 78 720 [2] 79 800 [6,18] 80 800 [6,19] 81 810 [4] 82 810 [5] 83 960 [7] 84 960 [8] 85 960 [8] 86 960 [7] 87 960 [8] 88 960 [7] 87 960 [8] 88 960 [7] 89 1010 [5] 91 1010 [5] 91 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22,54] 96 1200 [23,55] 97 1200 [23,55] 99 1200 [24,50] 100 1200 [24,50] | 64 | 660 | [1] |
|--|-----|------|------------|
| 66 660 [1] 67 660 [1] 68 660 [1] 69 710 [5] 70 710 [5] 71 710 [5] 72 710 [5] 73 720 [2] 74 720 [2] 75 720 [2] 77 720 [2] 78 720 [2, 40] 79 800 [6, 18] 80 800 [6, 19] 81 810 [4] 82 810 [5] 83 960 [7] 84 960 [8] 85 960 [8] 86 960 [7] 87 960 [8] 88 960 [7] 89 1010 [5] 91 1010 [5] 92 1010 [5] | H | | |
| 67 660 [1] 68 660 [1] 69 710 [5] 70 710 [5] 71 710 [5] 72 710 [5] 73 720 [2] 74 720 [2] 75 720 [2] 76 720 [2] 77 720 [2] 78 720 [2,40] 79 800 [6,18] 80 800 [6,19] 81 810 [4] 82 810 [5] 83 960 [7] 84 960 [8] 85 960 [8] 86 960 [7] 87 960 [8] 88 960 [7] 89 1010 [5] 91 1010 [5] 92 1010 [5] <tr< td=""><td>H</td><td></td><td></td></tr<> | H | | |
| 68 660 [1] 69 710 [5] 70 710 [5] 71 710 [5] 72 710 [5] 73 720 [2] 74 720 [2] 75 720 [2] 76 720 [2] 77 720 [2] 79 800 [6, 18] 80 800 [6, 19] 81 810 [4] 82 810 [5] 83 960 [7] 84 960 [8] 85 960 [8] 86 960 [7] 87 960 [8] 88 960 [7] 89 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] | 4 | | |
| 69 710 [5] 70 710 [5] 71 710 [5] 72 710 [5] 73 720 [2] 74 720 [2] 75 720 [2,39] 76 720 [2] 77 720 [2] 78 720 [2,40] 79 800 [6,18] 80 800 [6,19] 81 810 [4] 82 810 [5] 83 960 [7] 84 960 [8] 85 960 [8] 86 960 [7] 87 960 [8] 88 960 [7] 89 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] | | | |
| 70 710 [5] 71 710 [5] 72 710 [5] 73 720 [2] 74 720 [2] 75 720 [2] 76 720 [2] 78 720 [2, 40] 79 800 [6, 18] 80 800 [6, 19] 81 810 [4] 82 810 [5] 83 960 [7] 84 960 [8] 85 960 [8] 86 960 [7] 87 960 [8] 88 960 [7] 89 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [23, 56] <td>4</td> <td></td> <td></td> | 4 | | |
| 71 710 [5] 72 710 [5] 73 720 [2] 74 720 [2] 75 720 [2] 76 720 [2] 77 720 [2] 78 720 [2,40] 79 800 [6,18] 80 800 [6,19] 81 810 [4] 82 810 [5] 83 960 [7] 84 960 [8] 85 960 [8] 87 960 [8] 88 960 [7] 87 960 [8] 89 1010 [5] 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22,54] <td>1</td> <td></td> <td></td> | 1 | | |
| 72 710 [5] 73 720 [2] 74 720 [2] 75 720 [2, 39] 76 720 [2] 77 720 [2] 78 720 [2, 40] 79 800 [6, 18] 80 800 [6, 19] 81 810 [4] 82 810 [5] 83 960 [7] 84 960 [8] 85 960 [8] 86 960 [7] 87 960 [8] 88 960 [7] 89 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [23, 56] 98 1200 [2 | | | |
| 73 720 [2] 74 720 [2] 75 720 [2, 39] 76 720 [2] 77 720 [2] 78 720 [2, 40] 79 800 [6, 18] 80 800 [6, 19] 81 810 [4] 82 810 [5] 83 960 [7] 84 960 [8] 85 960 [8] 86 960 [7] 87 960 [8] 88 960 [7] 89 1010 [5] 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [23, 56] 98 1200 [| 4 | | |
| 74 720 [2] 75 720 [2, 39] 76 720 [2] 77 720 [2] 78 720 [2, 40] 79 800 [6, 18] 80 800 [6, 19] 81 810 [4] 82 810 [5] 83 960 [7] 84 960 [8] 85 960 [8] 86 960 [7] 87 960 [8] 88 960 [7] 89 1010 [5] 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [23, 56] 98 1200 [23, 56] 99 1200 | 4 | | |
| 75 720 [2, 39] 76 720 [2] 77 720 [2] 78 720 [2, 40] 79 800 [6, 18] 80 800 [6, 19] 81 810 [4] 82 810 [5] 83 960 [7] 84 960 [8] 85 960 [8] 87 960 [8] 88 960 [7] 89 1010 [5] 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [23, 56] 98 1200 [23, 56] 98 1200 [24, 50] 100 1200 [24, 49] | 4 | | |
| 76 720 [2] 77 720 [2] 78 720 [2,40] 79 800 [6,18] 80 800 [6,19] 81 810 [4] 82 810 [5] 83 960 [7] 84 960 [8] 85 960 [8] 86 960 [7] 87 960 [8] 88 960 [7] 89 1010 [5] 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22,54] 96 1200 [23,56] 98 1200 [23,56] 99 1200 [24,50] 100 1200 [24,49] | 4 | | |
| 77 720 [2] 78 720 [2, 40] 79 800 [6, 18] 80 800 [6, 19] 81 810 [4] 82 810 [5] 83 960 [7] 84 960 [8] 85 960 [8] 87 960 [8] 88 960 [7] 89 1010 [5] 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [22, 53] 97 1200 [23, 56] 98 1200 [24, 50] 100 1200 [24, 49] | H | | . , , |
| 78 720 [2, 40] 79 800 [6, 18] 80 800 [6, 19] 81 810 [4] 82 810 [5] 83 960 [7] 84 960 [8] 85 960 [8] 86 960 [7] 87 960 [8] 88 960 [7] 89 1010 [5] 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [22, 53] 97 1200 [23, 56] 98 1200 [24, 50] 100 1200 [24, 49] | 1 | | |
| 79 800 [6, 18] 80 800 [6, 19] 81 810 [4] 82 810 [5] 83 960 [7] 84 960 [8] 85 960 [8] 87 960 [8] 88 960 [7] 89 1010 [5] 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [22, 53] 97 1200 [23, 56] 98 1200 [24, 50] 100 1200 [24, 49] | | | L , |
| 80 800 [6, 19] 81 810 [4] 82 810 [5] 83 960 [7] 84 960 [8] 85 960 [8] 86 960 [7] 87 960 [8] 88 960 [7] 89 1010 [5] 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [22, 53] 97 1200 [23, 56] 98 1200 [24, 50] 100 1200 [24, 49] | 4 | | |
| 81 810 [4] 82 810 [5] 83 960 [7] 84 960 [8] 85 960 [8] 86 960 [7] 87 960 [8] 88 960 [7] 89 1010 [5] 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [22, 53] 97 1200 [23, 56] 98 1200 [24, 50] 100 1200 [24, 49] | H | | . , . |
| 82 810 [5] 83 960 [7] 84 960 [8] 85 960 [8] 86 960 [7] 87 960 [8] 88 960 [7] 89 1010 [5] 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [22, 53] 97 1200 [23, 56] 98 1200 [24, 50] 100 1200 [24, 49] | 4 | | . , . |
| 83 960 [7] 84 960 [8] 85 960 [8] 86 960 [7] 87 960 [8] 88 960 [7] 89 1010 [5] 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [22, 53] 97 1200 [23, 56] 98 1200 [24, 50] 100 1200 [24, 49] | + | | |
| 84 960 [8] 85 960 [8] 86 960 [7] 87 960 [8] 88 960 [7] 89 1010 [5] 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [22, 53] 97 1200 [23, 56] 98 1200 [24, 50] 100 1200 [24, 49] | 1 | | |
| 85 960 [8] 86 960 [7] 87 960 [8] 88 960 [7] 89 1010 [5] 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [22, 53] 97 1200 [23, 56] 98 1200 [24, 50] 100 1200 [24, 49] | H | | |
| 86 960 [7] 87 960 [8] 88 960 [7] 89 1010 [5] 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [23, 56] 98 1200 [23, 56] 99 1200 [24, 50] 100 1200 [24, 49] | H | | |
| 87 960 [8] 88 960 [7] 89 1010 [5] 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [22, 53] 97 1200 [23, 56] 98 1200 [24, 50] 100 1200 [24, 49] | 1 | | |
| 88 960 [7] 89 1010 [5] 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [23, 56] 97 1200 [23, 56] 98 1200 [24, 50] 100 1200 [24, 49] | 4 | | |
| 89 1010 [5] 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [22, 53] 97 1200 [23, 56] 98 1200 [23, 55] 99 1200 [24, 50] 100 1200 [24, 49] | - | | |
| 90 1010 [5] 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [22, 53] 97 1200 [23, 56] 98 1200 [23, 55] 99 1200 [24, 50] 100 1200 [24, 49] | | | [7] |
| 91 1010 [5] 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [22, 53] 97 1200 [23, 56] 98 1200 [24, 50] 100 1200 [24, 49] | + | | |
| 92 1010 [5] 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [22, 53] 97 1200 [23, 56] 98 1200 [23, 55] 99 1200 [24, 50] 100 1200 [24, 49] | 4 | | |
| 93 1080 [39] 94 1080 [40] 95 1200 [22, 54] 96 1200 [22, 53] 97 1200 [23, 56] 98 1200 [23, 55] 99 1200 [24, 50] 100 1200 [24, 49] | 4 | | |
| 94 1080 [40] 95 1200 [22, 54] 96 1200 [22, 53] 97 1200 [23, 56] 98 1200 [23, 55] 99 1200 [24, 50] 100 1200 [24, 49] | 1 | 1010 | |
| 95 1200 [22, 54] 96 1200 [22, 53] 97 1200 [23, 56] 98 1200 [23, 55] 99 1200 [24, 50] 100 1200 [24, 49] | 93 | 1080 | [39] |
| 96 1200 [22, 53] 97 1200 [23, 56] 98 1200 [23, 55] 99 1200 [24, 50] 100 1200 [24, 49] | 94 | 1080 | [40] |
| 97 1200 [23, 56] 98 1200 [23, 55] 99 1200 [24, 50] 100 1200 [24, 49] | 95 | 1200 | [22, 54] |
| 98 1200 [23, 55] 99 1200 [24, 50] 100 1200 [24, 49] | 96 | 1200 | [22, 53] |
| 99 1200 [24, 50] 100 1200 [24, 49] | 97 | 1200 | [23, 56] |
| 100 1200 [24, 49] | 98 | 1200 | [23, 55] |
| | 99 | 1200 | [24, 50] |
| 101 1200 [25, 52] | 100 | 1200 | [24, 49] |
| | 101 | 1200 | [25, 52] |

| 102 | 1200 | [25, 51] |
|-----|------|-----------------|
| 103 | 1210 | [4] |
| 104 | 1210 | [4] |
| 105 | 1210 | [10, 11] |
| 106 | 1210 | [10, 12] |
| 107 | 1210 | [10] |
| 108 | 1210 | [10, 13] |
| 109 | 1210 | $[\ 11,\ 13\]$ |
| 110 | 1210 | [11] |
| 111 | 1210 | [11, 12] |
| 112 | 1210 | [12, 13] |
| 113 | 1210 | [12] |
| 114 | 1210 | [13] |
| 115 | 1250 | [26] |
| 116 | 1250 | [26] |
| 117 | 1280 | [9] |
| 118 | 1310 | [5] |
| 119 | 1310 | [5] |
| 120 | 1310 | [5] |
| 121 | 1310 | [5] |
| 122 | 1320 | [2] |
| 123 | 1320 | [2] |
| 124 | 1320 | [2] |
| 125 | 1320 | [2] |
| 126 | 1320 | [2] |
| 127 | 1320 | [2] |
| 128 | 1320 | [2] |
| 129 | 1320 | [2] |
| 130 | 1320 | [2, 63] |
| 131 | 1320 | [2, 64] |
| 132 | 1320 | [2, 65] |
| 133 | 1320 | [2, 66] |
| 134 | 1320 | [2, 67] |
| 135 | 1320 | [2, 68] |
| 136 | 1440 | [73] |
| 137 | 1440 | [74] |
| 138 | 1440 | [75] |
| 139 | 1440 | [76] |
| ш | | |

| 140 | 1440 | [77] |
|-----|------|------------|
| 141 | 1440 | [78] |
| 142 | 1510 | [5] |
| 143 | 1510 | [5] |
| 144 | 1510 | [5] |
| 145 | 1510 | [5] |
| 146 | 1550 | [6, 31] |
| 147 | 1550 | [6, 29] |
| 148 | 1550 | [6, 32] |
| 149 | 1550 | [6, 30] |
| 150 | 1600 | [35, 79] |
| 151 | 1600 | [33, 79] |
| 152 | 1600 | [34, 79] |
| 153 | 1600 | [36, 80] |
| 154 | 1600 | [37, 80] |
| 155 | 1600 | [38, 80] |
| 156 | 1760 | [10, 18] |
| 157 | 1760 | [11, 18] |
| 158 | 1760 | [12, 18] |
| 159 | 1760 | [13, 18] |
| 160 | 1800 | [3, 39] |
| 161 | 1800 | [3, 40] |
| 162 | 1810 | [5] |
| 163 | 1810 | [5] |
| 164 | 1810 | [5] |
| 165 | 1810 | [5] |
| 166 | 1910 | [5] |
| 167 | 1910 | [5] |
| 168 | 1910 | [5] |
| 169 | 1910 | [5] |
| 170 | 1920 | [14] |
| 171 | 1920 | [14] |
| 172 | 1920 | [15] |
| 173 | 1920 | [15] |
| 174 | 1920 | [14] |
| 175 | 1920 | [15] |
| 176 | 1920 | [14] |
| 177 | 1920 | [14] |
| u | | |

| 178 | 1920 | [14] |
|-----|------|------------|
| 179 | 1920 | [15] |
| 180 | 1920 | [15] |
| 181 | 1920 | [14] |
| 182 | 1920 | [15] |
| 183 | 1920 | [15] |
| 184 | 1920 | [16, 88] |
| 185 | 1920 | [16, 83] |
| 186 | 1920 | [16, 86] |
| 187 | 1920 | [17, 84] |
| 188 | 1920 | [17, 85] |
| 189 | 1920 | [17, 87] |
| 190 | 1920 | [14] |
| 191 | 1920 | [15] |
| 192 | 1920 | [16] |
| 193 | 1920 | [17] |
| 194 | 1920 | [83] |
| 195 | 1920 | [83] |
| 196 | 1920 | [84] |
| 197 | 1920 | [84] |
| 198 | 1920 | [85] |
| 199 | 1920 | [85] |
| 200 | 1920 | [86] |
| 201 | 1920 | [86] |
| 202 | 1920 | [87] |
| 203 | 1920 | [87] |
| 204 | 1920 | [88] |
| 205 | 1920 | [88] |

Group: $C_2 * C_6$

Searching up to index : 500

How many normal groups are found : 862

Total Time in s:578.9

| Number | Index | Supergroups |
|--------|-------|-------------|
| 1 | 1 | [] |

| 2 | 2 | [1] |
|----|----|-----------------|
| 3 | 2 | [1] |
| 4 | 2 | [1] |
| 5 | 3 | [1] |
| 6 | 4 | [2, 3, 4] |
| 7 | 6 | [2, 5] |
| 8 | 6 | [4] |
| 9 | 6 | [3, 5] |
| 10 | 6 | [4, 5] |
| 11 | 6 | [3] |
| 12 | 8 | [6] |
| 13 | 10 | [4] |
| 14 | 12 | [6, 8] |
| 15 | 12 | [5] |
| 16 | 12 | [6, 11] |
| 17 | 12 | [6, 7, 9, 10] |
| 18 | 14 | [4] |
| 19 | 16 | [12] |
| 20 | 18 | [9, 11] |
| 21 | 18 | [8, 10] |
| 22 | 18 | [8] |
| 23 | 20 | [6, 13] |
| 24 | 22 | [4] |
| 25 | 24 | [9, 15] |
| 26 | 24 | [10, 15] |
| 27 | 24 | [11] |
| 28 | 24 | [7, 15] |
| 29 | 24 | [12, 14] |
| 30 | 24 | [12, 17] |
| 31 | 24 | [12, 16] |
| 32 | 26 | $[\ 4\]$ |
| 33 | 28 | [6, 18] |
| 34 | 30 | [8, 13] |
| 35 | 30 | [10, 13] |
| 36 | 32 | [19] |
| 37 | 34 | [4] |
| 38 | 36 | [14, 16] |
| 39 | 36 | [14, 17, 21] |

| 40 | 36 | [16, 17, 20] |
|----|----|--------------------|
| 41 | 36 | [14, 22] |
| 42 | 38 | [4] |
| 43 | 40 | [12, 23] |
| 44 | 42 | [10] |
| 45 | 42 | [9] |
| 46 | 42 | [9] |
| 47 | 42 | [10] |
| 48 | 42 | [8, 18] |
| 49 | 42 | [10, 18] |
| 50 | 44 | [6, 24] |
| 51 | 46 | [4] |
| 52 | 48 | [16, 27] |
| 53 | 48 | [27] |
| 54 | 48 | [27] |
| 55 | 48 | [17, 25, 26, 28] |
| 56 | 48 | [19, 29] |
| 57 | 48 | [19, 30] |
| 58 | 48 | [19, 31] |
| 59 | 48 | [25] |
| 60 | 48 | [25] |
| 61 | 50 | [13] |
| 62 | 52 | [6, 32] |
| 63 | 54 | [20] |
| 64 | 54 | [21] |
| 65 | 54 | [21, 22] |
| 66 | 54 | [21] |
| 67 | 54 | [21] |
| 68 | 54 | [22] |
| 69 | 56 | [12, 33] |
| 70 | 58 | [4] |
| 71 | 60 | [1] |
| 72 | 60 | [17, 23, 35] |
| 73 | 60 | [16, 23] |
| 74 | 60 | [14, 23, 34] |
| 75 | 62 | [4] |
| 76 | 64 | [36] |
| 77 | 66 | [8, 24] |

| 78 | 66 | [10, 24] |
|-----|-----------------|-----------------|
| 79 | 68 | [6, 37] |
| 80 | 70 | [13, 18] |
| 81 | $\frac{70}{72}$ | [12] |
| + | | |
| 82 | $\frac{72}{72}$ | [21, 26] |
| 83 | 72 | [20, 25] |
| 84 | 72 | [20, 27] |
| 85 | 72 | [30, 31, 40] |
| 86 | 72 | [29, 30, 39] |
| 87 | 72 | [29, 41] |
| 88 | 72 | [29, 31, 38] |
| 89 | 74 | [4] |
| 90 | 76 | [6, 42] |
| 91 | 78 | [8, 32] |
| 92 | 78 | [9] |
| 93 | 78 | [9] |
| 94 | 78 | [10, 32] |
| 95 | 78 | [10] |
| 96 | 78 | [10] |
| 97 | 80 | [19, 43] |
| 98 | 82 | [4] |
| 99 | 84 | [14, 33, 48] |
| 100 | 84 | [16, 33] |
| 101 | 84 | [17, 46] |
| 102 | 84 | [17, 33, 49] |
| 103 | 84 | $[\ 17,\ 47\]$ |
| 104 | 84 | [17, 44] |
| 105 | 84 | [17, 45] |
| 106 | 86 | [4] |
| 107 | 88 | [12, 50] |
| 108 | 90 | [21, 34, 35] |
| 109 | 90 | [22, 34] |
| 110 | 92 | [6, 51] |
| 111 | 94 | [4] |
| 112 | 96 | [28] |
| 113 | 96 | [30, 55] |
| 114 | 96 | [25] |
| 115 | 96 | [26] |

| 110 | 0.0 | [07] |
|-----|-----|-----------------|
| 116 | 96 | [27] |
| 117 | 96 | [31, 52] |
| 118 | 96 | [36, 56] |
| 119 | 96 | [36, 58] |
| 120 | 96 | [36, 57] |
| 121 | 96 | [52] |
| 122 | 96 | [52, 53, 54] |
| 123 | 96 | [55] |
| 124 | 96 | [55, 59, 60] |
| 125 | 98 | [18] |
| 126 | 100 | $[\ 23,\ 61\]$ |
| 127 | 102 | [8, 37] |
| 128 | 102 | [10, 37] |
| 129 | 104 | [12, 62] |
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| 751 444 [17, 324] 752 444 [17, 322] 753 444 [17, 193, 323] 754 444 [17, 325] 755 444 [17, 321] 756 446 [4] 757 448 [76, 326] 758 450 [20, 194] 759 450 [20, 196] 760 450 [21, 195] | 749 | $44\overline{4}$ | [14, 193, 320] |
| 752 444 [17, 322] 753 444 [17, 193, 323] 754 444 [17, 325] 755 444 [17, 321] 756 446 [4] 757 448 [76, 326] 758 450 [20, 194] 759 450 [20, 196] 760 450 [21, 195] | 750 | 444 | [16, 193] |
| 753 444 [17, 193, 323] 754 444 [17, 325] 755 444 [17, 321] 756 446 [4] 757 448 [76, 326] 758 450 [20, 194] 759 450 [20, 196] 760 450 [21, 195] | 751 | 444 | $[17, \overline{324}]$ |
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| 757 448 [76, 326] 758 450 [20, 194] 759 450 [20, 196] 760 450 [21, 195] | 755 | 444 | [17, 321] |
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| 803 474 [10, 208] 804 474 [10] 805 476 [33, 79, 344] 806 478 [4] | |
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| 810 480 [120, 209, 348] | |
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| 814 480 [124, 345] | |
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| 818 480 [121, 346] | |
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| 845 | 486 | [214] |
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| 847 | 486 | [217, 219] |
| 848 | 486 | [218] |
| 849 | 486 | [218] |
| 850 | 486 | [218] |
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| 852 | 486 | [220] |
| 853 | 488 | [12, 359] |
| 854 | 490 | [80, 125] |
| 855 | 492 | [14, 221, 360] |
| 856 | 492 | [16, 221] |
| 857 | 492 | [17, 221, 361] |
| 858 | 494 | [32, 42] |
| 859 | 496 | [19, 362] |
| 860 | 498 | [8, 222] |
| 861 | 498 | [10, 222] |
| 862 | 500 | [126, 363] |
| | | |

Group: $C_2 * C_7$

Searching up to index : 1000

How many normal groups are found : 63

Total Time in s : 27.6

| Number | Index | Supergroups |
|--------|-------|-------------|
| 1 | 1 | [] |
| 2 | 2 | [1] |
| 3 | 7 | [1] |
| 4 | 14 | [2] |

| 5 | 14 | [2, 3] |
|----------|-----|---------------------|
| 6 | 56 | $\frac{[2,3]}{[3]}$ |
| 7 | 56 | [3] |
| 8 | 98 | |
| 9 | 112 | [4, 5] |
| <u> </u> | 112 | [5, 6] |
| 10 | | [5, 7] |
| 11 | 168 | [1] |
| 12 | 168 | [1] |
| 13 | 168 | [1] |
| 14 | 336 | [2] |
| 15 | 336 | [2] |
| 16 | 336 | [2] |
| 17 | 336 | [2, 11] |
| 18 | 336 | [2, 12] |
| 19 | 336 | [2, 13] |
| 20 | 406 | [5] |
| 21 | 406 | [5] |
| 22 | 406 | [5] |
| 23 | 406 | [5] |
| 24 | 406 | [5] |
| 25 | 406 | [5] |
| 26 | 448 | [6, 7] |
| 27 | 504 | [1] |
| 28 | 504 | [1] |
| 29 | 504 | [1] |
| 30 | 504 | [1] |
| 31 | 504 | [1] |
| 32 | 504 | [1] |
| 33 | 602 | [5] |
| 34 | 602 | [5] |
| 35 | 602 | [5] |
| 36 | 602 | [5] |
| 37 | 602 | [5] |
| 38 | 602 | [5] |
| 39 | 672 | [14] |
| 40 | 672 | [15] |
| 41 | 672 | [16] |
| 42 | 672 | [17] |
| L 12 | | [- '] |

| 43 | 672 | [18] |
|----|-----|---------------|
| 44 | 672 | [19] |
| 45 | 686 | [8] |
| 46 | 784 | [8,9] |
| 47 | 784 | [8, 10] |
| 48 | 896 | [4] |
| 49 | 896 | [9] |
| 50 | 896 | [9, 10, 26] |
| 51 | 896 | [10] |
| 52 | 896 | [26] |
| 53 | 896 | [26] |
| 54 | 896 | [26] |
| 55 | 896 | [26] |
| 56 | 896 | [26] |
| 57 | 896 | [26] |
| 58 | 994 | [5] |
| 59 | 994 | [5] |
| 60 | 994 | [5] |
| 61 | 994 | [5] |
| 62 | 994 | [5] |
| 63 | 994 | [5] |
| | | |

Group: $C_2 * C_8$

Searching up to index : 500

How many normal groups are found: 1187

Total Time in s : 1677.0

| Number | Index | Supergroups |
|--------|-------|-------------------|
| 1 | 1 | [] |
| 2 | 2 | [1] |
| 3 | 2 | [1] |
| 4 | 2 | [1] |
| 5 | 4 | $[\ 2,\ 3,\ 4\]$ |
| 6 | 4 | [2] |
| 7 | 4 | [2] |
| 8 | 6 | [4] |

| 9 | 8 | [6] |
|----------|----|----------------|
| 10 | 8 | [5] |
| 11 | 8 | [5, 6, 7] |
| 12 | 8 | [5, 0, 7] |
| 13 | 8 | [6] |
| 14 | 10 | [4] |
| 15 | 12 | |
| 16 | | [5,8] |
| 17 | 14 | [4] |
| | 16 | [10] |
| 18 19 | 16 | [10, 11, 12] |
| | 16 | [10] |
| 20 | 16 | [12] |
| 21 | 16 | [11] |
| 22 | 16 | [12] |
| 23 | 16 | [9, 11, 13] |
| 24 | 18 | [8] |
| 25 | 20 | [7] |
| 26 | 20 | [7] |
| 27 | 20 | [5, 14] |
| 28 | 22 | |
| 29 | 24 | [8] |
| 30 | 24 | [11, 15] |
| 31 | 24 | [10, 15] |
| 32 | 24 | [12, 15] |
| 33 | 26 | [4] |
| 34 | 28 | [5, 16] |
| 35 | 30 | [8, 14] |
| 36 | 32 | [18] |
| 37 | 32 | [18] |
| 38 | 32 | [18] |
| 39 | 32 | [18] |
| 40 | 32 | [18, 21, 23] |
| 41 | 32 | [17] |
| 42 | 32 | [17, 18, 19] |
| 43 | 32 | [17] |
| 44 | 32 | [18, 20, 22] |
| 45 | 34 | [4] |
| 46 | 36 | [7] |

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| 780 360 [1] 781 360 [105, 179] 782 360 [105, 180] 783 360 [52, 101] 784 360 [106, 183, 318] 785 360 [50, 101, 316] 786 360 [51, 101, 317] 787 360 [105, 182, 318] 788 360 [53, 100] 789 360 [107, 184, 318] 790 360 [104, 130, 181] 791 360 [8, 177] 792 362 [4] 793 364 [34, 68, 319] 794 366 [8, 185] 795 368 [17, 320] 796 368 [18, 320, 321, 322] 797 368 [20, 322] 799 368 [21, 321] 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, | 778 | 356 | [7] |
| 781 360 [105, 179] 782 360 [105, 180] 783 360 [52, 101] 784 360 [106, 183, 318] 785 360 [50, 101, 316] 786 360 [51, 101, 317] 787 360 [105, 182, 318] 788 360 [53, 100] 789 360 [104, 130, 181] 790 360 [104, 130, 181] 791 360 [8, 177] 792 362 [4] 793 364 [34, 68, 319] 794 366 [8, 185] 795 368 [17, 320] 796 368 [18, 320, 321, 322] 797 368 [20, 322] 799 368 [21, 321] 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 <td< td=""><th>+</th><td></td><td>L J</td></td<> | + | | L J |
| 782 360 [105, 180] 783 360 [52, 101] 784 360 [106, 183, 318] 785 360 [50, 101, 316] 786 360 [51, 101, 317] 787 360 [105, 182, 318] 788 360 [53, 100] 789 360 [107, 184, 318] 790 360 [104, 130, 181] 791 360 [8, 177] 792 362 [4] 793 364 [34, 68, 319] 794 366 [8, 185] 795 368 [17, 320] 796 368 [19, 320] 798 368 [20, 322] 799 368 [21, 321] 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 780 | 360 | [1] |
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| 784 360 [106, 183, 318] 785 360 [50, 101, 316] 786 360 [51, 101, 317] 787 360 [105, 182, 318] 788 360 [53, 100] 789 360 [107, 184, 318] 790 360 [104, 130, 181] 791 360 [8, 177] 792 362 [4] 793 364 [34, 68, 319] 794 366 [8, 185] 795 368 [17, 320] 796 368 [19, 320] 798 368 [20, 322] 799 368 [21, 321] 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 782 | 360 | [105, 180] |
| 785 360 [50, 101, 316] 786 360 [51, 101, 317] 787 360 [105, 182, 318] 788 360 [53, 100] 789 360 [107, 184, 318] 790 360 [104, 130, 181] 791 360 [8, 177] 792 362 [4] 793 364 [34, 68, 319] 794 366 [8, 185] 795 368 [17, 320] 796 368 [19, 320] 798 368 [20, 322] 799 368 [21, 321] 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 783 | 360 | |
| 786 360 [51, 101, 317] 787 360 [105, 182, 318] 788 360 [53, 100] 789 360 [107, 184, 318] 790 360 [104, 130, 181] 791 360 [8, 177] 792 362 [4] 793 364 [34, 68, 319] 794 366 [8, 185] 795 368 [17, 320] 796 368 [19, 320] 798 368 [20, 322] 799 368 [21, 321] 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 784 | 360 | [106, 183, 318] |
| 787 360 [105, 182, 318] 788 360 [53, 100] 789 360 [107, 184, 318] 790 360 [104, 130, 181] 791 360 [8, 177] 792 362 [4] 793 364 [34, 68, 319] 794 366 [8, 185] 795 368 [17, 320] 796 368 [19, 320] 797 368 [19, 320] 798 368 [20, 322] 799 368 [21, 321] 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 785 | 360 | [50, 101, 316] |
| 788 360 [53, 100] 789 360 [107, 184, 318] 790 360 [104, 130, 181] 791 360 [8, 177] 792 362 [4] 793 364 [34, 68, 319] 794 366 [8, 185] 795 368 [17, 320] 796 368 [18, 320, 321, 322] 797 368 [19, 320] 798 368 [20, 322] 799 368 [21, 321] 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 786 | 360 | [51, 101, 317] |
| 789 360 [107, 184, 318] 790 360 [104, 130, 181] 791 360 [8, 177] 792 362 [4] 793 364 [34, 68, 319] 794 366 [8, 185] 795 368 [17, 320] 796 368 [19, 320] 797 368 [20, 322] 799 368 [21, 321] 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 787 | 360 | [105, 182, 318] |
| 790 360 [104, 130, 181] 791 360 [8, 177] 792 362 [4] 793 364 [34, 68, 319] 794 366 [8, 185] 795 368 [17, 320] 796 368 [18, 320, 321, 322] 797 368 [20, 322] 799 368 [21, 321] 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 788 | 360 | [53, 100] |
| 791 360 [8, 177] 792 362 [4] 793 364 [34, 68, 319] 794 366 [8, 185] 795 368 [17, 320] 796 368 [18, 320, 321, 322] 797 368 [19, 320] 798 368 [20, 322] 799 368 [21, 321] 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 789 | 360 | [107, 184, 318] |
| 792 362 [4] 793 364 [34, 68, 319] 794 366 [8, 185] 795 368 [17, 320] 796 368 [18, 320, 321, 322] 797 368 [19, 320] 798 368 [20, 322] 799 368 [21, 321] 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 790 | 360 | [104, 130, 181] |
| 793 364 [34, 68, 319] 794 366 [8, 185] 795 368 [17, 320] 796 368 [18, 320, 321, 322] 797 368 [19, 320] 798 368 [20, 322] 799 368 [21, 321] 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 791 | 360 | [8, 177] |
| 794 366 [8, 185] 795 368 [17, 320] 796 368 [18, 320, 321, 322] 797 368 [19, 320] 798 368 [20, 322] 799 368 [21, 321] 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 792 | 362 | [4] |
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| 796 368 [18, 320, 321, 322] 797 368 [19, 320] 798 368 [20, 322] 799 368 [21, 321] 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 794 | 366 | [8, 185] |
| 797 368 [19, 320] 798 368 [20, 322] 799 368 [21, 321] 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 795 | 368 | [17, 320] |
| 798 368 [20, 322] 799 368 [21, 321] 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 796 | 368 | [18, 320, 321, 322] |
| 799 368 [21, 321] 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 797 | 368 | [19, 320] |
| 800 368 [22, 322] 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 798 | 368 | [20, 322] |
| 801 368 [23, 321] 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 799 | 368 | [21, 321] |
| 802 370 [14, 108] 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 800 | 368 | [22, 322] |
| 803 372 [15, 186, 323] 804 374 [28, 45] 805 376 [10, 324] | 801 | 368 | [23, 321] |
| 804 374 [28, 45] 805 376 [10, 324] | 802 | 370 | [14, 108] |
| 805 376 [10, 324] | 803 | 372 | [15, 186, 323] |
| | 804 | 374 | [28, 45] |
| 806 376 [11, 324] | 805 | 376 | $[10, \overline{324}]$ |
| | 806 | 376 | [11, 324] |

| 807 | 376 | [12, 324] |
|-----|-----|--|
| 808 | 378 | [71, 187] |
| 809 | 380 | [27, 109, 325] |
| 810 | 382 | [4] |
| 811 | 384 | [326] |
| 812 | 384 | [326] |
| 813 | 384 | [140, 329] |
| 814 | 384 | [141, 329] |
| 815 | 384 | [142, 329] |
| 816 | 384 | [143, 329] |
| 817 | 384 | [139, 327, 329, 332] |
| 818 | 384 | [144, 328] |
| 819 | 384 | [137, 328, 329, 330] |
| 820 | 384 | [145, 328] |
| 821 | 384 | [138, 329, 331, 333] |
| 822 | 384 | [327, 338, 358] |
| 823 | 384 | [328, 339, 361] |
| 824 | 384 | [329, 338, 339, 340, 359, 363, 365] |
| 825 | 384 | [330, 339, 362] |
| 826 | 384 | [331, 340, 366] |
| 827 | 384 | [332, 338, 360] |
| 828 | 384 | [333, 340, 364] |
| 829 | 384 | [188, 334, 342, 357] |
| 830 | 384 | [189, 334, 345, 356] |
| 831 | 384 | [197, 344, 348, 350] |
| 832 | 384 | [196, 346, 348, 349] |
| 833 | 384 | [191, 347, 348, 351] |
| 834 | 384 | [203, 344, 349, 351] |
| 835 | 384 | [198, 347, 349, 350] |
| 836 | 384 | [206, 346, 350, 351] |
| 837 | 384 | [210, 342, 343, 344, 345, 346, 347, 352] |
| 838 | 384 | [218, 334, 353, 354] |
| 839 | 384 | [209, 342, 355, 356] |
| 840 | 384 | [213, 345, 355, 357] |
| 841 | 384 | [134, 336] |
| 842 | 384 | [135, 336] |
| 843 | 384 | [136, 336] |
| 844 | 384 | [134, 326] |
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|-----|-----|------------------------|
| 845 | 384 | [134, 335] |
| 846 | 384 | [135, 326] |
| 847 | 384 | [135, 335] |
| 848 | 384 | [136] |
| 849 | 384 | [136] |
| 850 | 384 | [136, 326] |
| 851 | 384 | [136] |
| 852 | 384 | [136] |
| 853 | 384 | [136, 335] |
| 854 | 384 | [190, 334, 346, 355] |
| 855 | 384 | [216, 346, 356, 357] |
| 856 | 384 | [146, 335] |
| 857 | 384 | [146, 336] |
| 858 | 384 | [146, 326] |
| 859 | 384 | [327, 359, 360] |
| 860 | 384 | [331, 364, 365] |
| 861 | 384 | [332, 358, 359] |
| 862 | 384 | [333, 365, 366] |
| 863 | 384 | [147, 336] |
| 864 | 384 | [147, 335] |
| 865 | 384 | [147, 326] |
| 866 | 384 | [328, 362, 363] |
| 867 | 384 | [330, 361, 363] |
| 868 | 384 | [148, 326] |
| 869 | 384 | [148, 336] |
| 870 | 384 | [148, 335] |
| 871 | 384 | [149, 336, 337, 341] |
| 872 | 384 | [149, 326] |
| 873 | 384 | [149, 335] |
| 874 | 384 | [192, 348] |
| 875 | 384 | [193, 348] |
| 876 | 384 | [194, 348] |
| 877 | 384 | [195, 348] |
| 878 | 384 | [199, 349] |
| 879 | 384 | [200, 349] |
| 880 | 384 | [201, 349] |
| 881 | 384 | [202, 349] |
| 882 | 384 | [204, 350] |
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| 883 | 384 | [205, 350] |
|-----|-----|------------------------|
| 884 | 384 | [207, 350] |
| 885 | 384 | [208, 350] |
| 886 | 384 | [211, 343] |
| 887 | 384 | [212, 343] |
| 888 | 384 | [214, 346] |
| 889 | 384 | [215, 346] |
| 890 | 384 | [217, 353] |
| 891 | 384 | [219, 353] |
| 892 | 384 | [220, 334] |
| 893 | 384 | [221, 334] |
| 894 | 384 | [222, 334] |
| 895 | 384 | [326] |
| 896 | 384 | [326] |
| 897 | 384 | [326] |
| 898 | 384 | [326] |
| 899 | 384 | [326] |
| 900 | 384 | [326] |
| 901 | 384 | [328] |
| 902 | 384 | [328] |
| 903 | 384 | [329, 358, 360] |
| 904 | 384 | [329] |
| 905 | 384 | [329, 364, 366] |
| 906 | 384 | [329] |
| 907 | 384 | [329] |
| 908 | 384 | [329, 361, 362] |
| 909 | 384 | [329] |
| 910 | 386 | [4] |
| 911 | 388 | [5, 367] |
| 912 | 388 | [7] |
| 913 | 388 | [7] |
| 914 | 390 | $[\ 35,\ 110,\ 223\]$ |
| 915 | 392 | [11, 368] |
| 916 | 392 | [12] |
| 917 | 392 | [13] |
| 918 | 392 | [13] |
| 919 | 392 | [72, 369] |
| 920 | 392 | [73, 369] |
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| | | f = 1 |
|-----|-----|------------------------|
| 921 | 392 | [74, 369] |
| 922 | 394 | [4] |
| 923 | 396 | [47, 224, 370] |
| 924 | 398 | [4] |
| 925 | 400 | [18, 371] |
| 926 | 400 | [20, 371] |
| 927 | 400 | [21] |
| 928 | 400 | [21] |
| 929 | 400 | [22, 371] |
| 930 | 400 | [23, 372] |
| 931 | 400 | [23, 373] |
| 932 | 400 | [113, 114, 374] |
| 933 | 400 | [113, 115, 375] |
| 934 | 400 | [111, 380] |
| 935 | 400 | [112, 376] |
| 936 | 400 | [113, 376, 380, 381] |
| 937 | 400 | [116, 376] |
| 938 | 400 | [117, 381] |
| 939 | 400 | [120, 380] |
| 940 | 400 | [121, 381] |
| 941 | 400 | [111, 122, 375] |
| 942 | 400 | [111, 123, 374] |
| 943 | 400 | [114, 115, 377] |
| 944 | 400 | [114, 378] |
| 945 | 400 | [115, 379] |
| 946 | 400 | [118, 379] |
| 947 | 400 | [118, 119, 377] |
| 948 | 400 | [118, 120, 375] |
| 949 | 400 | [119, 378] |
| 950 | 400 | [119, 120, 374] |
| 951 | 400 | [122, 379] |
| 952 | 400 | [122, 123, 377] |
| 953 | 400 | [123, 378] |
| 954 | 402 | [8, 225] |
| 955 | 404 | [5, 382] |
| 956 | 404 | [7] |
| 957 | 404 | [7] |
| 958 | 406 | [16, 75] |
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| 959 | 408 | [29, 155] |
|-----|-----|-----------------------|
| 960 | 408 | [30, 227, 383] |
| 961 | 408 | [30, 228] |
| 962 | 408 | [30, 229] |
| 963 | 408 | [31, 226, 383] |
| 964 | 408 | [32, 230, 383] |
| 965 | 410 | [14, 124] |
| 966 | 412 | [5, 384] |
| 967 | 414 | [24, 235] |
| 968 | 416 | [36, 387] |
| 969 | 416 | [36, 388] |
| 970 | 416 | [36, 386] |
| 971 | 416 | [37, 388] |
| 972 | 416 | [37, 386] |
| 973 | 416 | [37, 387] |
| 974 | 416 | [38, 388] |
| 975 | 416 | [38, 387] |
| 976 | 416 | [38, 386] |
| 977 | 416 | [39, 388] |
| 978 | 416 | [39, 386] |
| 979 | 416 | [39, 387] |
| 980 | 416 | [40, 386, 392, 395] |
| 981 | 416 | [40, 388, 391, 396] |
| 982 | 416 | [40, 387, 393, 397] |
| 983 | 416 | [41, 385] |
| 984 | 416 | [42, 386] |
| 985 | 416 | [42, 385, 387, 389] |
| 986 | 416 | [42, 388] |
| 987 | 416 | [43, 385] |
| 988 | 416 | [44, 388] |
| 989 | 416 | [44, 386] |
| 990 | 416 | [44, 387, 390, 394] |
| 991 | 418 | [28, 48] |
| 992 | 420 | [76, 125, 236, 398] |
| 993 | 422 | [4] |
| 994 | 424 | [10, 399] |
| 995 | 424 | [11, 399] |
| 996 | 424 | [11, 401] |

| 997 | 424 | [11, 400] |
|------|-----|------------------------|
| 998 | 424 | [12, 399] |
| 999 | 426 | [8, 237] |
| 1000 | 428 | [5, 402] |
| 1001 | 430 | [14, 126] |
| 1002 | 432 | [62, 238, 403] |
| 1003 | 432 | [58] |
| 1004 | 432 | [58] |
| 1005 | 432 | [59] |
| 1006 | 432 | [59] |
| 1007 | 432 | [60, 247, 403] |
| 1008 | 432 | [60, 249] |
| 1009 | 432 | [60, 248] |
| 1010 | 432 | [62, 239, 404] |
| 1011 | 432 | [63, 241] |
| 1012 | 432 | [63, 240] |
| 1013 | 432 | [64, 243] |
| 1014 | 432 | [64, 244] |
| 1015 | 432 | [64, 242, 404] |
| 1016 | 432 | [65, 245, 403] |
| 1017 | 432 | [66, 246, 404] |
| 1018 | 432 | [250, 406] |
| 1019 | 432 | [251, 407] |
| 1020 | 432 | [252, 406, 407, 408] |
| 1021 | 432 | [253, 407] |
| 1022 | 432 | [254, 408] |
| 1023 | 432 | [255, 406] |
| 1024 | 432 | [256, 408] |
| 1025 | 432 | [163, 257, 405] |
| 1026 | 432 | [258, 405] |
| 1027 | 432 | [259, 405] |
| 1028 | 432 | [247, 410] |
| 1029 | 432 | [238, 410] |
| 1030 | 432 | [245, 410] |
| 1031 | 432 | [239, 409] |
| 1032 | 432 | [240] |
| 1033 | 432 | [241] |
| 1034 | 432 | [242, 409] |

| 1035 | 432 | [243] |
|------|-----|------------------------|
| 1036 | 432 | [243] |
| 1037 | 432 | [243] |
| 1038 | 432 | [244] |
| 1039 | 432 | [244] |
| 1040 | 432 | [244] |
| 1041 | 432 | [246, 409] |
| 1042 | 432 | [248, 411] |
| 1043 | 432 | [249, 412] |
| 1044 | 434 | $[\ 16,\ 77\]$ |
| 1045 | 436 | $[\ 5,\ 413\]$ |
| 1046 | 436 | [7] |
| 1047 | 436 | [7] |
| 1048 | 438 | [8, 260] |
| 1049 | 440 | [50, 128] |
| 1050 | 440 | [51, 128] |
| 1051 | 440 | $[\ 49,\ 127,\ 414\]$ |
| 1052 | 440 | [52, 128, 414] |
| 1053 | 440 | [53, 129, 414] |
| 1054 | 442 | [33, 45] |
| 1055 | 444 | [15, 261, 415] |
| 1056 | 446 | [4] |
| 1057 | 448 | [90, 421, 422, 423] |
| 1058 | 448 | [78, 416] |
| 1059 | 448 | [79, 416] |
| 1060 | 448 | [80, 416] |
| 1061 | 448 | [81, 419, 420, 422] |
| 1062 | 448 | [82, 418, 420, 424] |
| 1063 | 448 | [83, 417, 422, 424] |
| 1064 | 448 | [84, 416, 417, 420] |
| 1065 | 448 | [85, 416, 419, 424] |
| 1066 | 448 | [86, 416, 418, 422] |
| 1067 | 448 | [87, 416] |
| 1068 | 448 | [88, 417, 418, 419] |
| 1069 | 448 | [89, 421] |
| 1070 | 448 | [91, 421] |
| 1071 | 448 | [92, 422] |
| 1072 | 448 | [93, 422] |
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| 1073 | 448 | [94, 422] |
|------|-----|------------------------|
| 1074 | 450 | [130, 264] |
| 1075 | 452 | [5, 425] |
| 1076 | 452 | [7] |
| 1077 | 452 | [7] |
| 1078 | 454 | [4] |
| 1079 | 456 | [29, 172] |
| 1080 | 456 | [30, 266, 426] |
| 1081 | 456 | $[\ 31,\ 265,\ 426\]$ |
| 1082 | 456 | $[\ 32,\ 267,\ 426\]$ |
| 1083 | 458 | [4] |
| 1084 | 460 | [27, 131, 427] |
| 1085 | 462 | [54, 95, 268] |
| 1086 | 464 | [17, 428] |
| 1087 | 464 | [18, 430] |
| 1088 | 464 | [18, 428, 431, 432] |
| 1089 | 464 | [18, 429] |
| 1090 | 464 | [19, 428] |
| 1091 | 464 | [20, 432] |
| 1092 | 464 | [21, 430] |
| 1093 | 464 | [21, 431] |
| 1094 | 464 | [21, 429] |
| 1095 | 464 | [22, 432] |
| 1096 | 464 | [23, 430] |
| 1097 | 464 | [23, 429] |
| 1098 | 464 | [23, 431] |
| 1099 | 466 | [4] |
| 1100 | 468 | [46, 69] |
| 1101 | 468 | $[\ 46,\ 70\]$ |
| 1102 | 468 | [47, 269, 433] |
| 1103 | 470 | [14, 132] |
| 1104 | 472 | [10, 434] |
| 1105 | 472 | [11, 434] |
| 1106 | 472 | [12, 434] |
| 1107 | 474 | [8, 270] |
| 1108 | 476 | [34, 96, 435] |
| 1109 | 478 | [4] |
| 1110 | 480 | [134, 179] |
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| 1111 | 480 | [134, 180] |
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| 1112 | 480 | [35, 271] |
| 1113 | 480 | [140, 276, 441] |
| 1114 | 480 | [141, 279, 441] |
| 1115 | 480 | [142, 284, 441] |
| 1116 | 480 | [143, 285, 441] |
| 1117 | 480 | [139, 290, 439, 441, 444] |
| 1118 | 480 | [144, 291, 440] |
| 1119 | 480 | [137, 292, 440, 441, 442] |
| 1120 | 480 | [145, 293, 440] |
| 1121 | 480 | [138, 294, 441, 443, 445] |
| 1122 | 480 | [135, 183, 436] |
| 1123 | 480 | [134, 182, 436] |
| 1124 | 480 | [136, 184, 436] |
| 1125 | 480 | [149, 436, 446, 447] |
| 1126 | 480 | [137, 272, 437] |
| 1127 | 480 | [137, 274, 438] |
| 1128 | 480 | [138, 273, 437] |
| 1129 | 480 | [138, 275, 438] |
| 1130 | 480 | [139, 289, 437, 448, 450] |
| 1131 | 480 | [139, 288, 438, 449, 451] |
| 1132 | 480 | [133, 181] |
| 1133 | 480 | [140, 277, 437] |
| 1134 | 480 | [140, 278, 438] |
| 1135 | 480 | [141, 281, 438] |
| 1136 | 480 | [141, 280, 437] |
| 1137 | 480 | [142, 282, 437] |
| 1138 | 480 | [142, 283, 438] |
| 1139 | 480 | [143, 287, 438] |
| 1140 | 480 | [143, 286, 437] |
| 1141 | 480 | [146, 436] |
| 1142 | 480 | [147, 436] |
| 1143 | 480 | [148, 436] |
| 1144 | 480 | [11, 453] |
| 1145 | 480 | [10, 453] |
| 1146 | 480 | [12, 453] |
| 1147 | 480 | [9, 456] |
| 1148 | 480 | [10, 455] |

| 1149 | 480 | [11 455 456 457] |
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| 1149 | 480 | [11, 455, 456, 457] |
| 1150 | 480 | [12, 455] [13, 456] |
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| 1152 | 480 | [452, 453, 454] |
| 1153 | 480 | [453] |
| 1154 | 480 | [453] |
| 1155 | 480 | [453] |
| 1156 | 480 | [455] |
| 1157 | 480 | [455] |
| 1158 | 480 | [455] |
| 1159 | 480 | [455] |
| 1160 | 480 | [457] |
| 1161 | 480 | [457] |
| 1162 | 482 | [4] |
| 1163 | 484 | [7] |
| 1164 | 484 | [55, 458] |
| 1165 | 486 | [295] |
| 1166 | 488 | [10, 459] |
| 1167 | 488 | [11, 460] |
| 1168 | 488 | [11, 459] |
| 1169 | 488 | [11, 461] |
| 1170 | 488 | [12, 459] |
| 1171 | 490 | [99, 150] |
| 1172 | 492 | [15, 296, 462] |
| 1173 | 494 | $[\ 33,\ 48\]$ |
| 1174 | 496 | [17, 463] |
| 1175 | 496 | [18, 463, 464, 465] |
| 1176 | 496 | [19, 463] |
| 1177 | 496 | $[\ 20,\ 465\]$ |
| 1178 | 496 | $[\ 21,\ 464\]$ |
| 1179 | 496 | $[\ 22,\ 465\]$ |
| 1180 | 496 | $[\ 23,\ 464\]$ |
| 1181 | 498 | [8, 299] |
| 1182 | 500 | [151, 152] |
| 1183 | 500 | [151] |
| 1184 | 500 | [152, 153] |
| 1185 | 500 | [152] |
| 1186 | 500 | [153] |

| I | 1187 | 500 | [154, 466] |
|---|------|-----|--------------|
| ш | | | L /] |

Group : $C_2 * C_{10}$

Searching up to index : 500

How many normal groups are found : 469

Total Time in s : 177.3

| Number | Index | Supergroups |
|--------|-------|-----------------|
| 1 | 1 | [] |
| 2 | 2 | [1] |
| 3 | 2 | [1] |
| 4 | 2 | [1] |
| 5 | 4 | [2, 3, 4] |
| 6 | 5 | [1] |
| 7 | 6 | [4] |
| 8 | 8 | [5] |
| 9 | 10 | [4] |
| 10 | 10 | [3] |
| 11 | 10 | [2, 6] |
| 12 | 10 | [3, 6] |
| 13 | 10 | [4,6] |
| 14 | 12 | [5, 7] |
| 15 | 14 | [4] |
| 16 | 16 | [8] |
| 17 | 18 | [7] |
| 18 | 20 | [5, 9] |
| 19 | 20 | [5, 11, 12, 13] |
| 20 | 20 | [5, 10] |
| 21 | 22 | [4] |
| 22 | 24 | [8, 14] |
| 23 | 26 | [4] |
| 24 | 28 | [5, 15] |
| 25 | 30 | [7, 13] |
| 26 | 30 | [7, 9] |
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| 28 | 34 | [4] |

| 30 38 [4] 31 40 [8, 19] 32 40 [8, 18] 33 40 [8, 20] 34 42 [7, 15] 35 44 [5, 21] 36 46 [4] 37 48 [16, 22] 38 50 [9, 13] 39 50 [9] 40 50 [10, 12] 41 52 [5, 23] 42 54 [17] 43 56 [8, 24] 44 58 [4] 45 60 [1] 46 60 [1] 47 60 [14, 19, 25] 49 60 [14, 18, 26] 50 62 [4] 51 64 [27] 52 66 [7, 21] 53 68 [5, 28] 54 70 [9, 15] 55 70 [13, 15] 56 72 [22, 29] 57 | 29 | 36 | [14, 17] |
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| 36 46 [4] 37 48 [16, 22] 38 50 [9, 13] 39 50 [9] 40 50 [10, 12] 41 52 [5, 23] 42 54 [17] 43 56 [8, 24] 44 58 [4] 45 60 [1] 47 60 [14, 20] 48 60 [14, 19, 25] 49 60 [14, 18, 26] 50 62 [4] 51 64 [27] 52 66 [7, 21] 53 68 [5, 28] 54 70 [9, 15] 55 70 [13, 15] 56 72 [22, 29] 57 74 [4] 58 76 [5, 30] 59 78 [7, 23] 60 80 [6] 61 80 [16, 32] 63 80 [16, 31] 64 </td <td></td> <td></td> <td></td> | | | |
| 37 48 [16, 22] 38 50 [9, 13] 39 50 [9] 40 50 [10, 12] 41 52 [5, 23] 42 54 [17] 43 56 [8, 24] 44 58 [4] 45 60 [1] 47 60 [14, 20] 48 60 [14, 19, 25] 49 60 [14, 18, 26] 50 62 [4] 51 64 [27] 52 66 [7, 21] 53 68 [5, 28] 54 70 [9, 15] 55 70 [13, 15] 56 72 [22, 29] 57 74 [4] 58 76 [5, 30] 59 78 [7, 23] 60 80 [6] 61 80 [16, 32] 63 80 [16, 31] 64 82 [4] 65 </td <td></td> <td></td> <td></td> | | | |
| 38 50 [9] 40 50 [10, 12] 41 52 [5, 23] 42 54 [17] 43 56 [8, 24] 44 58 [4] 45 60 [1] 46 60 [1] 47 60 [14, 20] 48 60 [14, 19, 25] 49 60 [14, 18, 26] 50 62 [4] 51 64 [27] 52 66 [7, 21] 53 68 [5, 28] 54 70 [9, 15] 55 70 [13, 15] 56 72 [22, 29] 57 74 [4] 58 76 [5, 30] 59 78 [7, 23] 60 80 [6] 61 80 [16, 32] 63 80 [16, 31] 64 82 [4] 65 84 [14, 24, 34] | | | |
| 39 50 [9] 40 50 [10, 12] 41 52 [5, 23] 42 54 [17] 43 56 [8, 24] 44 58 [4] 45 60 [1] 46 60 [1] 47 60 [14, 20] 48 60 [14, 19, 25] 49 60 [14, 18, 26] 50 62 [4] 51 64 [27] 52 66 [7, 21] 53 68 [5, 28] 54 70 [9, 15] 55 70 [13, 15] 56 72 [22, 29] 57 74 [4] 58 76 [5, 30] 59 78 [7, 23] 60 80 [6] 61 80 [16, 32] 63 80 [16, 31] 64 82 [4] 65 84 [14, 24, 34] | | | |
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| 41 52 [5, 23] 42 54 [17] 43 56 [8, 24] 44 58 [4] 45 60 [1] 46 60 [1] 47 60 [14, 20] 48 60 [14, 19, 25] 49 60 [14, 18, 26] 50 62 [4] 51 64 [27] 52 66 [7, 21] 53 68 [5, 28] 54 70 [9, 15] 55 70 [13, 15] 56 72 [22, 29] 57 74 [4] 58 76 [5, 30] 59 78 [7, 23] 60 80 [6] 61 80 [16, 32] 63 80 [16, 31] 64 82 [4] 65 84 [14, 24, 34] | | | |
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| 59 78 [7, 23] 60 80 [6] 61 80 [16, 33] 62 80 [16, 32] 63 80 [16, 31] 64 82 [4] 65 84 [14, 24, 34] | | | |
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| 62 80 [16, 32] 63 80 [16, 31] 64 82 [4] 65 84 [14, 24, 34] | | | |
| 63 80 [16, 31] 64 82 [4] 65 84 [14, 24, 34] | 4 | 80 | |
| 64 82 [4] 65 84 [14, 24, 34] | 4 | 80 | |
| 65 84 [14, 24, 34] | 63 | 80 | [16, 31] |
| | 64 | 82 | |
| | 65 | 84 | [14, 24, 34] |
| 66 86 [4] | 66 | 86 | [4] |

| 67 68 | 88 | $[\ 8,\ 35\]$ |
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| 0.0 | 90 | [17, 26] |
| 69 | 90 | [17, 25] |
| 70 | 92 | [5, 36] |
| 71 | 94 | [4] |
| 72 | 96 | [27, 37] |
| 73 | 98 | [15] |
| 74 | 100 | [18, 20] |
| 75 | 100 | [18, 19, 38] |
| 76 | 100 | [19, 20, 40] |
| 77 | 100 | [18, 39] |
| 78 | 102 | [7, 28] |
| 79 | 104 | [8, 41] |
| 80 | 106 | $[\ 4\]$ |
| 81 | 108 | [29, 42] |
| 82 | 110 | [9, 21] |
| 83 | 110 | [12] |
| 84 | 110 | [12] |
| 85 | 110 | [12] |
| 86 | 110 | [12] |
| 87 | 110 | [13, 21] |
| 88 | 110 | [13] |
| 89 | 110 | [13] |
| 90 | 110 | [13] |
| 91 | 110 | [13] |
| 92 | 112 | [16, 43] |
| 93 | 114 | [7, 30] |
| 94 | 116 | [5, 44] |
| 95 | 118 | [4] |
| 96 | 120 | [3] |
| 97 | 120 | [3] |
| 98 | 120 | [22, 31, 48] |
| 99 | 120 | [22, 33, 47] |
| 100 | 120 | [22, 32, 49] |
| 101 | 120 | [4, 45] |
| 102 | 120 | [3, 45] |
| 103 | 120 | [2, 45] |
| 104 | 120 | [4, 46] |

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| 105 | 120 | [3, 46] |
| 106 | 120 | [2, 46] |
| 107 | 122 | $[\ 4\]$ |
| 108 | 124 | [5, 50] |
| 109 | 126 | [17, 34] |
| 110 | 128 | [51] |
| 111 | 130 | [9, 23] |
| 112 | 130 | $[\ 13,\ 23\]$ |
| 113 | 132 | [14, 35, 52] |
| 114 | 134 | $[\ 4\]$ |
| 115 | 136 | $[\ 8,\ 53\]$ |
| 116 | 138 | [7, 36] |
| 117 | 140 | [20, 24] |
| 118 | 140 | [19, 24, 55] |
| 119 | 140 | [18, 24, 54] |
| 120 | 142 | [4] |
| 121 | 144 | $[\ 37,\ 56\]$ |
| 122 | 146 | [4] |
| 123 | 148 | [5, 57] |
| 124 | 150 | [7] |
| 125 | 150 | [25, 26, 38] |
| 126 | 150 | [26, 39] |
| 127 | 152 | [8, 58] |
| 128 | 154 | [15, 21] |
| 129 | 156 | [14, 41, 59] |
| 130 | 158 | [4] |
| 131 | 160 | [10] |
| 132 | 160 | [11, 60] |
| 133 | 160 | [12, 60] |
| 134 | 160 | [13, 60] |
| 135 | 160 | [27, 62] |
| 136 | 160 | [27, 61] |
| 137 | 160 | [27, 63] |
| 138 | 160 | [60] |
| 139 | 160 | [60] |
| 140 | 160 | [60] |
| 141 | 160 | [60] |
| 142 | 162 | [42] |
| - | | |

| 143 | 164 | [5, 64] |
|-----|-----|----------------------|
| 144 | 166 | $[\ 4\]$ |
| 145 | 168 | [22, 43, 65] |
| 146 | 170 | [9, 28] |
| 147 | 170 | [13, 28] |
| 148 | 172 | [5, 66] |
| 149 | 174 | [7, 44] |
| 150 | 176 | [16, 67] |
| 151 | 178 | $[\ 4\]$ |
| 152 | 180 | [29, 47] |
| 153 | 180 | [29, 48, 69] |
| 154 | 180 | [29, 49, 68] |
| 155 | 182 | $[\ 15,\ 23\]$ |
| 156 | 184 | [8, 70] |
| 157 | 186 | [7, 50] |
| 158 | 188 | [5, 71] |
| 159 | 190 | [9, 30] |
| 160 | 190 | [13, 30] |
| 161 | 192 | [51, 72] |
| 162 | 194 | [4] |
| 163 | 196 | [24, 73] |
| 164 | 198 | [17, 52] |
| 165 | 200 | [8] |
| 166 | 200 | [31, 32, 75] |
| 167 | 200 | [31, 33, 76] |
| 168 | 200 | [32, 77] |
| 169 | 200 | $[\ 32,\ 33,\ 74\]$ |
| 170 | 202 | $[\ 4\]$ |
| 171 | 204 | [14, 53, 78] |
| 172 | 206 | [4] |
| 173 | 208 | [16, 79] |
| 174 | 210 | [25, 34, 55] |
| 175 | 210 | [26, 34, 54] |
| 176 | 212 | [5, 80] |
| 177 | 214 | [4] |
| 178 | 216 | [56, 81] |
| 179 | 218 | [4] |
| 180 | 220 | [18, 35, 82] |
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| 181 | 220 | [19, 85] |
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| 182 | 220 | [19, 90] |
| 183 | 220 | [19, 88] |
| 184 | 220 | [19, 89] |
| 185 | 220 | [19, 84] |
| 186 | 220 | [19, 86] |
| 187 | 220 | [19, 35, 87] |
| 188 | 220 | [19, 83] |
| 189 | 220 | [19, 91] |
| 190 | 220 | [20, 35] |
| 191 | 222 | [7, 57] |
| 192 | 224 | [27, 92] |
| 193 | 226 | [4] |
| 194 | 228 | [14, 58, 93] |
| 195 | 230 | [9, 36] |
| 196 | 230 | [13, 36] |
| 197 | 232 | [8, 94] |
| 198 | 234 | [17, 59] |
| 199 | 236 | [5, 95] |
| 200 | 238 | [15, 28] |
| 201 | 240 | [37, 63, 98] |
| 202 | 240 | [37, 62, 100] |
| 203 | 240 | [37, 61, 99] |
| 204 | 240 | [5, 101, 102, 103] |
| 205 | 240 | [5, 104, 105, 106] |
| 206 | 240 | [96] |
| 207 | 240 | [5, 96] |
| 208 | 240 | [96] |
| 209 | 240 | [97] |
| 210 | 240 | [5, 97] |
| 211 | 240 | [97] |
| 212 | 240 | [102] |
| 213 | 240 | [102] |
| 214 | 240 | [105] |
| 215 | 240 | [105] |
| 216 | 242 | [21] |
| 217 | 244 | [5, 107] |
| 218 | 246 | [7, 64] |
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| 220 | 250 | [38] |
| 221 | 250 | $[\ 38,\ 39\]$ |
| 222 | 250 | [38] |
| 223 | 250 | [38] |
| 224 | 250 | [38] |
| 225 | 250 | [38] |
| 226 | 250 | [39] |
| 227 | 250 | [40] |
| 228 | 252 | [29, 65, 109] |
| 229 | 254 | [4] |
| 230 | 256 | [110] |
| 231 | 258 | [7, 66] |
| 232 | 260 | [18, 41, 111] |
| 233 | 260 | [19, 41, 112] |
| 234 | 260 | [20, 41] |
| 235 | 262 | [4] |
| 236 | 264 | [22, 67, 113] |
| 237 | 266 | [15, 30] |
| 238 | 268 | [5, 114] |
| 239 | 270 | [42, 69] |
| 240 | 270 | [42, 68] |
| 241 | 272 | [16, 115] |
| 242 | 274 | $[\ 4\]$ |
| 243 | 276 | [14, 70, 116] |
| 244 | 278 | [4] |
| 245 | 280 | [31, 43, 118] |
| 246 | 280 | [32, 43, 119] |
| 247 | 280 | $[\ 33,\ 43,\ 117\]$ |
| 248 | 282 | $[\ 7,\ 71\]$ |
| 249 | 284 | [5, 120] |
| 250 | 286 | [21, 23] |
| 251 | 288 | [72, 121] |
| 252 | 290 | $[\ 9,\ 44\]$ |
| 253 | 290 | [13, 44] |
| 254 | 292 | [5, 122] |
| 255 | 294 | [34, 73] |
| 256 | 296 | [8, 123] |
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| 266 302 [4] 267 304 [16, 127] 268 306 [17, 78] 269 308 [24, 35, 128] 270 310 [9, 50] 271 310 [12] 272 310 [12] 273 310 [12] 274 310 [13] 275 310 [13] 276 310 [13] 278 310 [13] 279 310 [13] 280 312 [22, 79, 129] 281 314 [4] 282 316 [5, 130] 283 318 [7, 80] 284 320 [19, 132, 133, 134] 285 320 [51, 135] 287 320 [51, 136] 288 320 [51, 137] 289 320 [131] 291 320 [131] 292 320 [131] 293 320 [131] | 264 | 300 | [6, 45] |
| 267 304 [16, 127] 268 306 [17, 78] 269 308 [24, 35, 128] 270 310 [9, 50] 271 310 [12] 272 310 [12] 273 310 [12] 274 310 [13] 275 310 [13] 276 310 [13] 278 310 [13] 279 310 [13] 280 312 [22, 79, 129] 281 314 [4] 282 316 [5, 130] 283 318 [7, 80] 284 320 [19, 132, 133, 134] 285 320 [51, 135] 287 320 [51, 136] 288 320 [51, 137] 289 320 [131] 290 320 [131] 291 320 [131] <td< td=""><td>265</td><td>300</td><td>[6, 46]</td></td<> | 265 | 300 | [6, 46] |
| 268 306 [17, 78] 269 308 [24, 35, 128] 270 310 [9, 50] 271 310 [12] 272 310 [12] 273 310 [12] 274 310 [13] 276 310 [13] 277 310 [13, 50] 278 310 [13] 279 310 [13] 280 312 [22, 79, 129] 281 314 [4] 282 316 [5, 130] 283 318 [7, 80] 284 320 [19, 132, 133, 134] 285 320 [51, 135] 287 320 [51, 136] 288 320 [51, 137] 289 320 [131] 290 320 [131] 291 320 [131] 292 320 [131] | 266 | 302 | $[\ 4\]$ |
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| 270 310 [9, 50] 271 310 [12] 272 310 [12] 273 310 [12] 274 310 [13] 275 310 [13] 276 310 [13] 278 310 [13] 279 310 [13] 280 312 [22, 79, 129] 281 314 [4] 282 316 [5, 130] 283 318 [7, 80] 284 320 [19, 132, 133, 134] 285 320 [20, 131] 286 320 [51, 135] 287 320 [51, 136] 288 320 [131] 290 320 [131] 291 320 [131] 292 320 [131] 293 320 [131] | 268 | 306 | $[\ 17,\ 78\]$ |
| 271 310 [12] 272 310 [12] 273 310 [12] 274 310 [12] 275 310 [13] 276 310 [13, 50] 278 310 [13] 279 310 [13] 280 312 [22, 79, 129] 281 314 [4] 282 316 [5, 130] 283 318 [7, 80] 284 320 [19, 132, 133, 134] 285 320 [20, 131] 286 320 [51, 135] 287 320 [51, 136] 288 320 [131] 290 320 [131] 291 320 [131] 292 320 [131] 293 320 [131] | 269 | 308 | [24, 35, 128] |
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| 275 310 [13] 276 310 [13] 277 310 [13, 50] 278 310 [13] 279 310 [13] 280 312 [22, 79, 129] 281 314 [4] 282 316 [5, 130] 283 318 [7, 80] 284 320 [19, 132, 133, 134] 285 320 [20, 131] 286 320 [51, 135] 287 320 [51, 136] 288 320 [131] 290 320 [131] 291 320 [131] 293 320 [131] 293 320 [131] | 273 | 310 | [12] |
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| 278 310 [13] 279 310 [13] 280 312 [22, 79, 129] 281 314 [4] 282 316 [5, 130] 283 318 [7, 80] 284 320 [19, 132, 133, 134] 285 320 [20, 131] 286 320 [51, 135] 287 320 [51, 136] 288 320 [51, 137] 289 320 [131] 290 320 [131] 291 320 [131] 293 320 [131] | 276 | 310 | [13] |
| 279 310 [13] 280 312 [22, 79, 129] 281 314 [4] 282 316 [5, 130] 283 318 [7, 80] 284 320 [19, 132, 133, 134] 285 320 [20, 131] 286 320 [51, 135] 287 320 [51, 136] 288 320 [51, 137] 289 320 [131] 290 320 [131] 291 320 [131] 293 320 [131] | 277 | 310 | $[\ 13,\ 50\]$ |
| 280 312 [22, 79, 129] 281 314 [4] 282 316 [5, 130] 283 318 [7, 80] 284 320 [19, 132, 133, 134] 285 320 [20, 131] 286 320 [51, 135] 287 320 [51, 136] 288 320 [51, 137] 289 320 [131] 290 320 [131] 291 320 [131] 293 320 [131] | 278 | 310 | [13] |
| 281 314 [4] 282 316 [5, 130] 283 318 [7, 80] 284 320 [19, 132, 133, 134] 285 320 [20, 131] 286 320 [51, 135] 287 320 [51, 136] 288 320 [51, 137] 289 320 [131] 290 320 [131] 291 320 [131] 293 320 [131] | 279 | 310 | [13] |
| 282 316 [5, 130] 283 318 [7, 80] 284 320 [19, 132, 133, 134] 285 320 [20, 131] 286 320 [51, 135] 287 320 [51, 136] 288 320 [51, 137] 289 320 [131] 290 320 [131] 291 320 [131] 292 320 [131] 293 320 [131] | 280 | 312 | [22, 79, 129] |
| 283 318 [7, 80] 284 320 [19, 132, 133, 134] 285 320 [20, 131] 286 320 [51, 135] 287 320 [51, 136] 288 320 [51, 137] 289 320 [131] 290 320 [131] 291 320 [131] 292 320 [131] 293 320 [131] | 281 | 314 | [4] |
| 284 320 [19, 132, 133, 134] 285 320 [20, 131] 286 320 [51, 135] 287 320 [51, 136] 288 320 [51, 137] 289 320 [131] 290 320 [131] 291 320 [131] 292 320 [131] 293 320 [131] | 282 | 316 | [5, 130] |
| 285 320 [20, 131] 286 320 [51, 135] 287 320 [51, 136] 288 320 [51, 137] 289 320 [131] 290 320 [131] 291 320 [131] 292 320 [131] 293 320 [131] | 283 | 318 | [7, 80] |
| 286 320 [51, 135] 287 320 [51, 136] 288 320 [51, 137] 289 320 [131] 290 320 [131] 291 320 [131] 292 320 [131] 293 320 [131] | 284 | 320 | [19, 132, 133, 134] |
| 287 320 [51, 136] 288 320 [51, 137] 289 320 [131] 290 320 [131] 291 320 [131] 292 320 [131] 293 320 [131] | 285 | 320 | [20, 131] |
| 288 320 [51, 137] 289 320 [131] 290 320 [131] 291 320 [131] 292 320 [131] 293 320 [131] | 286 | 320 | [51, 135] |
| 289 320 [131] 290 320 [131] 291 320 [131] 292 320 [131] 293 320 [131] | 287 | 320 | [51, 136] |
| 290 320 [131] 291 320 [131] 292 320 [131] 293 320 [131] | 288 | 320 | $[51, \overline{137}]$ |
| 291 320 [131] 292 320 [131] 293 320 [131] | 289 | 320 | [131] |
| 292 320 [131] 293 320 [131] | 290 | 320 | [131] |
| 293 320 [131] | 291 | 320 | [131] |
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| 294 320 [131] | 293 | 320 | [131] |
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| 295 | 320 | [132, 139, 141] |
| 296 | 320 | [132, 138, 140] |
| 297 | 320 | [133] |
| 298 | 320 | [133] |
| 299 | 320 | [133, 139, 140] |
| 300 | 320 | [133] |
| 301 | 320 | [133] |
| 302 | 320 | [133, 138, 141] |
| 303 | 320 | [134, 140, 141] |
| 304 | 320 | [134, 138, 139] |
| 305 | 322 | [15, 36] |
| 306 | 324 | [81, 142] |
| 307 | 326 | [4] |
| 308 | 328 | [8, 143] |
| 309 | 330 | [25, 89] |
| 310 | 330 | [25, 52, 87] |
| 311 | 330 | [25, 90] |
| 312 | 330 | [25, 88] |
| 313 | 330 | [25, 91] |
| 314 | 330 | [26, 52, 82] |
| 315 | 332 | [5, 144] |
| 316 | 334 | [4] |
| 317 | 336 | $[\ 37,\ 92,\ 145\]$ |
| 318 | 338 | [23] |
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| 320 | 340 | [19, 53, 147] |
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| 325 | 348 | [14, 94, 149] |
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| 328 | 352 | [27, 150] |
| 329 | 354 | [7, 95] |
| 330 | 356 | [5, 151] |
| 331 | 358 | [4] |
| 332 | 360 | [1] |
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| 351 380 [20, 58] 352 382 [4] 353 384 [110, 161] 354 386 [4] 355 388 [5, 162] 356 390 [25, 59, 112] 357 390 [26, 59, 111] 358 392 [43, 163] 359 394 [4] 360 396 [29, 113, 164] 361 398 [4] 362 400 [16, 165] 363 400 [62, 63, 166] | | | |
| 352 382 [4] 353 384 [110, 161] 354 386 [4] 355 388 [5, 162] 356 390 [25, 59, 112] 357 390 [26, 59, 111] 358 392 [43, 163] 359 394 [4] 360 396 [29, 113, 164] 361 398 [4] 362 400 [16, 165] 363 400 [62, 63, 166] | | | |
| 353 384 [110, 161] 354 386 [4] 355 388 [5, 162] 356 390 [25, 59, 112] 357 390 [26, 59, 111] 358 392 [43, 163] 359 394 [4] 360 396 [29, 113, 164] 361 398 [4] 362 400 [16, 165] 363 400 [62, 63, 166] | | | |
| 354 386 [4] 355 388 [5, 162] 356 390 [25, 59, 112] 357 390 [26, 59, 111] 358 392 [43, 163] 359 394 [4] 360 396 [29, 113, 164] 361 398 [4] 362 400 [16, 165] 363 400 [62, 63, 166] | | | |
| 355 388 [5, 162] 356 390 [25, 59, 112] 357 390 [26, 59, 111] 358 392 [43, 163] 359 394 [4] 360 396 [29, 113, 164] 361 398 [4] 362 400 [16, 165] 363 400 [62, 63, 166] | | | . , . |
| 356 390 [25, 59, 112] 357 390 [26, 59, 111] 358 392 [43, 163] 359 394 [4] 360 396 [29, 113, 164] 361 398 [4] 362 400 [16, 165] 363 400 [62, 63, 166] | | | |
| 357 390 [26, 59, 111] 358 392 [43, 163] 359 394 [4] 360 396 [29, 113, 164] 361 398 [4] 362 400 [16, 165] 363 400 [62, 63, 166] | | | . , . |
| 358 392 [43, 163] 359 394 [4] 360 396 [29, 113, 164] 361 398 [4] 362 400 [16, 165] 363 400 [62, 63, 166] | | | |
| 359 394 [4] 360 396 [29, 113, 164] 361 398 [4] 362 400 [16, 165] 363 400 [62, 63, 166] | | | |
| 360 396 [29, 113, 164] 361 398 [4] 362 400 [16, 165] 363 400 [62, 63, 166] | 358 | 392 | [43, 163] |
| 361 398 [4] 362 400 [16, 165] 363 400 [62, 63, 166] | | | L J |
| 362 400 [16, 165] 363 400 [62, 63, 166] | | | |
| 363 400 [62, 63, 166] | | | |
| | 362 | 400 | [16, 165] |
| 364 400 [62, 168] | 363 | 400 | [62, 63, 166] |
| <u> </u> | 364 | 400 | [62, 168] |
| 365 400 [61, 63, 167] | 365 | | [61, 63, 167] |
| 366 400 [61, 62, 169] | 366 | 400 | [61, 62, 169] |
| 367 402 [7, 114] | 367 | 402 | [7, 114] |
| 368 404 [5, 170] | 368 | 404 | [5, 170] |
| 369 406 [15, 44] | 369 | 406 | [15, 44] |
| 370 408 [22, 115, 171] | 370 | 408 | [22, 115, 171] |

| 371 | 410 | [9, 64] |
|-----|-----|-----------------------|
| 372 | 410 | [12] |
| 373 | 410 | [12] |
| 374 | 410 | [12] |
| 375 | 410 | [12] |
| 376 | 410 | [13] |
| 377 | 410 | [13, 64] |
| 378 | 410 | [13] |
| 379 | 410 | [13] |
| 380 | 410 | [13] |
| 381 | 412 | [5, 172] |
| 382 | 414 | [17, 116] |
| 383 | 416 | [27, 173] |
| 384 | 418 | [21, 30] |
| 385 | 420 | [48, 65, 118, 174] |
| 386 | 420 | [49, 65, 119, 175] |
| 387 | 420 | [47, 65, 117] |
| 388 | 422 | [4] |
| 389 | 424 | [8, 176] |
| 390 | 426 | [7, 120] |
| 391 | 428 | [5, 177] |
| 392 | 430 | [9, 66] |
| 393 | 430 | [13, 66] |
| 394 | 432 | [121, 178] |
| 395 | 434 | [15, 50] |
| 396 | 436 | [5, 179] |
| 397 | 438 | [7, 122] |
| 398 | 440 | [31, 182] |
| 399 | 440 | [31, 181] |
| 400 | 440 | [31, 186] |
| 401 | 440 | [31, 189] |
| 402 | 440 | [31, 183] |
| 403 | 440 | $[\ 31,\ 67,\ 187\]$ |
| 404 | 440 | [31, 188] |
| 405 | 440 | [31, 184] |
| 406 | 440 | [31, 185] |
| 407 | 440 | [32, 67, 180] |
| 408 | 440 | [33, 67, 190] |

| 409 | 442 | [23, 28] |
|-----|-----|-------------------|
| | 444 | |
| 410 | | [14, 123, 191] |
| 411 | 446 | [4] |
| 412 | 448 | [51, 192] |
| 413 | 450 | [17, 124] |
| 414 | 450 | [68, 69, 125] |
| 415 | 450 | [68, 126] |
| 416 | 452 | [5, 193] |
| 417 | 454 | [4] |
| 418 | 456 | [22, 127, 194] |
| 419 | 458 | [4] |
| 420 | 460 | [18, 70, 195] |
| 421 | 460 | [19, 70, 196] |
| 422 | 460 | [20, 70] |
| 423 | 462 | [34, 52, 128] |
| 424 | 464 | [16, 197] |
| 425 | 466 | $[\ 4\]$ |
| 426 | 468 | [29, 129, 198] |
| 427 | 470 | [9, 71] |
| 428 | 470 | [13, 71] |
| 429 | 472 | [8, 199] |
| 430 | 474 | [7, 130] |
| 431 | 476 | [24, 53, 200] |
| 432 | 478 | [4] |
| 433 | 480 | [25, 134] |
| 434 | 480 | [72, 137, 201] |
| 435 | 480 | [72, 135, 202] |
| 436 | 480 | [8, 204] |
| 437 | 480 | [8, 205] |
| 438 | 480 | [72, 136, 203] |
| 439 | 480 | [8, 207] |
| 440 | 480 | [8, 210] |
| 441 | 480 | [204] |
| 442 | 480 | [204, 212, 213] |
| 443 | 480 | [205, 214, 215] |
| 444 | 480 | [205] |
| 445 | 480 | [206, 207, 208] |
| 446 | 480 | [207] |

| CT. | | |
|-----|-----|-------------------|
| 447 | 480 | [209, 210, 211] |
| 448 | 480 | [210] |
| 449 | 482 | [4] |
| 450 | 484 | [35, 216] |
| 451 | 486 | [142] |
| 452 | 488 | [8, 217] |
| 453 | 490 | [54, 73] |
| 454 | 490 | [55, 73] |
| 455 | 492 | [14, 143, 218] |
| 456 | 494 | [23, 30] |
| 457 | 496 | [16, 219] |
| 458 | 498 | [7, 144] |
| 459 | 500 | [74] |
| 460 | 500 | [74, 77] |
| 461 | 500 | [74, 75, 76] |
| 462 | 500 | [75, 220] |
| 463 | 500 | [75, 77, 221] |
| 464 | 500 | $[\ 75,\ 224\]$ |
| 465 | 500 | [75, 225] |
| 466 | 500 | [75, 222] |
| 467 | 500 | [75, 223] |
| 468 | 500 | [76, 227] |
| 469 | 500 | [77, 226] |
| - | | |

Group : $C_2 * C_{11}$

Searching up to index : 1000

How many normal groups are found : $21\,$

Total Time in s : 15.2

| Number | Index | Supergroups |
|--------|-------|-------------|
| 1 | 1 | [] |
| 2 | 2 | [1] |
| 3 | 11 | [1] |
| 4 | 22 | [2] |
| 5 | 22 | [2, 3] |
| 6 | 242 | [4, 5] |

| 7 | 506 | [5] |
|----|-----|-----|
| 8 | 506 | [5] |
| 9 | 506 | [5] |
| 10 | 506 | [5] |
| 11 | 506 | [5] |
| 12 | 506 | [5] |
| 13 | 506 | [5] |
| 14 | 506 | [5] |
| 15 | 506 | [5] |
| 16 | 506 | [5] |
| 17 | 660 | [1] |
| 18 | 660 | [1] |
| 19 | 660 | [1] |
| 20 | 660 | [1] |
| 21 | 660 | [1] |

Group : $C_2 * C_{12}$

Searching up to index: 150

How many normal groups are found : 355

Total Time in s : 77.4

| Number | Index | Supergroups |
|--------|-------|-------------------|
| 1 | 1 | [] |
| 2 | 2 | [1] |
| 3 | 2 | [1] |
| 4 | 2 | [1] |
| 5 | 3 | [1] |
| 6 | 4 | $[\ 2,\ 3,\ 4\]$ |
| 7 | 4 | [2] |
| 8 | 4 | [2] |
| 9 | 6 | $[\ 2, 5\]$ |
| 10 | 6 | $[\ 3,\ 5\]$ |
| 11 | 6 | [3] |
| 12 | 6 | $[\ 4,\ 5\]$ |
| 13 | 6 | [4] |
| 14 | 8 | [6] |

| 15 | 8 | [6, 7, 8] |
|----|----|---------------------------|
| 16 | 8 | [6] |
| 17 | 10 | [4] |
| 18 | 12 | [5] |
| 19 | 12 | [6, 11] |
| 20 | 12 | [6, 13] |
| 21 | 12 | [6, 9, 10, 12] |
| 22 | 12 | [7, 9] |
| 23 | 12 | [8, 9] |
| 24 | 14 | [4] |
| 25 | 16 | [14] |
| 26 | 16 | [14, 15, 16] |
| 27 | 16 | [14] |
| 28 | 18 | [10, 11] |
| 29 | 18 | [12, 13] |
| 30 | 18 | [13] |
| 31 | 20 | [8] |
| 32 | 20 | [8] |
| 33 | 20 | [6, 17] |
| 34 | 22 | [4] |
| 35 | 24 | [9, 18] |
| 36 | 24 | [10, 18] |
| 37 | 24 | $[\ 15,\ 21,\ 22,\ 23\]$ |
| 38 | 24 | [11] |
| 39 | 24 | [15, 19] |
| 40 | 24 | [12, 18] |
| 41 | 24 | [13] |
| 42 | 24 | [15, 20] |
| 43 | 24 | [14, 21] |
| 44 | 24 | [14, 19] |
| 45 | 24 | [14, 20] |
| 46 | 24 | [16, 19] |
| 47 | 24 | [16, 21] |
| 48 | 24 | [16, 20] |
| 49 | 26 | [4] |
| 50 | 28 | [6, 24] |
| 51 | 30 | [12, 17] |
| 52 | 30 | [13, 17] |

| F 9 | 20 | [25] |
|-----|----|--------------------|
| 53 | 32 | |
| 54 | 32 | [25, 26, 27] |
| 55 | 32 | [25] |
| 56 | 32 | [26] |
| 57 | 32 | [26] |
| 58 | 34 | [4] |
| 59 | 36 | [8] |
| 60 | 36 | [19, 21, 28] |
| 61 | 36 | [20, 21, 29] |
| 62 | 36 | [19, 20] |
| 63 | 36 | [20, 30] |
| 64 | 38 | [4] |
| 65 | 40 | [14, 33] |
| 66 | 40 | [15, 33] |
| 67 | 40 | [15, 32] |
| 68 | 40 | [15, 31] |
| 69 | 40 | [16, 33] |
| 70 | 42 | [10] |
| 71 | 42 | [10] |
| 72 | 42 | [12, 24] |
| 73 | 42 | [12] |
| 74 | 42 | [12] |
| 75 | 42 | [13, 24] |
| 76 | 44 | [6, 34] |
| 77 | 46 | [4] |
| 78 | 48 | [21, 35, 36, 40] |
| 79 | 48 | [22, 35] |
| 80 | 48 | [23, 35] |
| 81 | 48 | [19, 38] |
| 82 | 48 | [20, 41] |
| 83 | 48 | [26, 37, 43, 47] |
| 84 | 48 | [25, 43] |
| 85 | 48 | [25, 45] |
| 86 | 48 | [25, 44] |
| 87 | 48 | [26, 39, 44, 46] |
| 88 | 48 | [26, 42, 45, 48] |
| 89 | 48 | [27, 45] |
| 90 | 48 | [27, 44] |
| - | | |

| 91 | 48 | [27, 43] |
|-----|----|----------------------|
| 92 | 48 | [36] |
| 93 | 48 | [36] |
| 94 | 48 | [38] |
| 95 | 48 | [38] |
| 96 | 48 | [40] |
| 97 | 48 | [40] |
| 98 | 50 | [17] |
| 99 | 52 | [6, 49] |
| 100 | 52 | [8] |
| 101 | 52 | [8] |
| 102 | 54 | [28] |
| 103 | 54 | [29] |
| 104 | 54 | [29] |
| 105 | 54 | [29, 30] |
| 106 | 54 | [29] |
| 107 | 54 | [30] |
| 108 | 56 | [14, 50] |
| 109 | 56 | [15, 50] |
| 110 | 56 | [16, 50] |
| 111 | 58 | $[\ 4\]$ |
| 112 | 60 | [1] |
| 113 | 60 | $[\ 21,\ 33,\ 51\]$ |
| 114 | 60 | [19, 33] |
| 115 | 60 | $[\ 20,\ 33,\ 52\]$ |
| 116 | 60 | [23, 31] |
| 117 | 60 | [23, 32] |
| 118 | 62 | $[\ 4\]$ |
| 119 | 64 | [53] |
| 120 | 64 | $[\ 53,\ 54,\ 55\]$ |
| 121 | 64 | [53] |
| 122 | 64 | [54, 56, 57] |
| 123 | 64 | [54] |
| 124 | 64 | [57] |
| 125 | 64 | [57] |
| 126 | 66 | [12, 34] |
| 127 | 66 | [13, 34] |
| 128 | 68 | [6, 58] |

| 129 | 68 | [8] |
|-----|----|------------------|
| 130 | 68 | [8] |
| 131 | 70 | [17, 24] |
| 132 | 72 | [14] |
| 133 | 72 | [15, 59] |
| 134 | 72 | [16] |
| 135 | 72 | [28, 36] |
| 136 | 72 | [29, 40] |
| 137 | 72 | [37, 39, 60] |
| 138 | 72 | [37, 42, 61] |
| 139 | 72 | [28, 38] |
| 140 | 72 | [43, 44, 60] |
| 141 | 72 | [46, 47, 60] |
| 142 | 72 | [29, 41] |
| 143 | 72 | [43, 45, 61] |
| 144 | 72 | [47, 48, 61] |
| 145 | 72 | [30, 41] |
| 146 | 72 | [42, 63] |
| 147 | 72 | [45, 63] |
| 148 | 72 | [48, 63] |
| 149 | 72 | [39, 42, 62] |
| 150 | 72 | [44, 45, 62] |
| 151 | 72 | [46, 48, 62] |
| 152 | 74 | [4] |
| 153 | 76 | [6, 64] |
| 154 | 78 | [10] |
| 155 | 78 | [10] |
| 156 | 78 | [12] |
| 157 | 78 | [12, 49] |
| 158 | 78 | [12] |
| 159 | 78 | [13, 49] |
| 160 | 80 | $[\ 25,\ 65\]$ |
| 161 | 80 | [26, 67] |
| 162 | 80 | [26, 68] |
| 163 | 80 | [26, 65, 66, 69] |
| 164 | 80 | [27, 65] |
| 165 | 82 | [4] |
| 166 | 84 | [19, 50] |

| 168 84 [21, 71] 169 84 [21, 74] 170 84 [21, 73] 171 84 [21, 50, 72] 172 84 [21, 70] 173 86 [4] 174 88 [14, 76] 175 88 [15, 76] 176 88 [16, 76] 177 90 [29, 51, 52] 178 90 [30, 52] 179 92 [6, 77] 180 94 [4] 181 96 [37, 78, 79, 80] 183 96 [47, 78] 184 96 [35] 185 96 [35] 186 96 [36] 187 96 [38] 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [46, 81] 192 96 [40] 193 96 [42, 82] | | | [00 = 2 |
|--|-----|----|---------------------------|
| 169 84 [21, 74] 170 84 [21, 73] 171 84 [21, 50, 72] 172 84 [21, 70] 173 86 [4] 174 88 [14, 76] 175 88 [15, 76] 176 88 [16, 76] 177 90 [29, 51, 52] 178 90 [30, 52] 179 92 [6, 77] 180 94 [4] 181 96 [43, 78] 182 96 [37, 78, 79, 80] 183 96 [47, 78] 184 96 [35] 185 96 [36] 187 96 [38] 188 96 [38] 189 96 [44, 81] 190 96 [46, 81] 191 96 [46, 81] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | 167 | 84 | [20, 50, 75] |
| 170 84 [21, 73] 171 84 [21, 50, 72] 172 84 [21, 70] 173 86 [4] 174 88 [14, 76] 175 88 [15, 76] 176 88 [16, 76] 177 90 [29, 51, 52] 178 90 [30, 52] 179 92 [6, 77] 180 94 [4] 181 96 [37, 78, 79, 80] 182 96 [37, 78, 79, 80] 183 96 [47, 78] 184 96 [35] 185 96 [36] 187 96 [38] 188 96 [38] 189 96 [44, 81] 190 96 [46, 81] 191 96 [46, 81] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | | | |
| 171 84 [21, 50, 72] 172 84 [21, 70] 173 86 [4] 174 88 [14, 76] 175 88 [15, 76] 176 88 [16, 76] 177 90 [29, 51, 52] 178 90 [30, 52] 179 92 [6, 77] 180 94 [4] 181 96 [43, 78] 182 96 [37, 78, 79, 80] 183 96 [47, 78] 184 96 [54, 83, 84, 91] 185 96 [35] 186 96 [36] 187 96 [38] 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [46, 81] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | | | |
| 172 84 [21, 70] 173 86 [4] 174 88 [14, 76] 175 88 [15, 76] 176 88 [16, 76] 177 90 [29, 51, 52] 178 90 [30, 52] 179 92 [6, 77] 180 94 [4] 181 96 [37, 78, 79, 80] 182 96 [37, 78, 79, 80] 183 96 [47, 78] 184 96 [35] 185 96 [36] 187 96 [38] 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [46, 81] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | | 84 | |
| 173 86 [4] 174 88 [14, 76] 175 88 [15, 76] 176 88 [16, 76] 177 90 [29, 51, 52] 178 90 [30, 52] 179 92 [6, 77] 180 94 [4] 181 96 [43, 78] 182 96 [37, 78, 79, 80] 183 96 [47, 78] 184 96 [54, 83, 84, 91] 185 96 [35] 186 96 [36] 187 96 [38] 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [46, 87, 90] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | | | |
| 174 88 [14, 76] 175 88 [15, 76] 176 88 [16, 76] 177 90 [29, 51, 52] 178 90 [30, 52] 179 92 [6, 77] 180 94 [4] 181 96 [43, 78] 182 96 [37, 78, 79, 80] 183 96 [47, 78] 184 96 [54, 83, 84, 91] 185 96 [35] 186 96 [36] 187 96 [38] 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [54, 86, 87, 90] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | 172 | | [21, 70] |
| 175 88 [15, 76] 176 88 [16, 76] 177 90 [29, 51, 52] 178 90 [30, 52] 179 92 [6, 77] 180 94 [4] 181 96 [43, 78] 182 96 [37, 78, 79, 80] 183 96 [47, 78] 184 96 [54, 83, 84, 91] 185 96 [35] 186 96 [36] 187 96 [38] 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [46, 87, 90] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | | 86 | L . |
| 176 88 [16, 76] 177 90 [29, 51, 52] 178 90 [30, 52] 179 92 [6, 77] 180 94 [4] 181 96 [43, 78] 182 96 [37, 78, 79, 80] 183 96 [47, 78] 184 96 [54, 83, 84, 91] 185 96 [35] 186 96 [36] 187 96 [38] 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [54, 86, 87, 90] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | | 88 | |
| 177 90 [29, 51, 52] 178 90 [30, 52] 179 92 [6, 77] 180 94 [4] 181 96 [43, 78] 182 96 [37, 78, 79, 80] 183 96 [47, 78] 184 96 [54, 83, 84, 91] 185 96 [35] 186 96 [36] 187 96 [38] 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [40] 193 96 [42, 82] 194 96 [45, 82] | | 88 | . , , |
| 178 90 [30, 52] 179 92 [6, 77] 180 94 [4] 181 96 [43, 78] 182 96 [37, 78, 79, 80] 183 96 [47, 78] 184 96 [54, 83, 84, 91] 185 96 [35] 186 96 [36] 187 96 [38] 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [46, 87, 90] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | 176 | 88 | |
| 179 92 [6, 77] 180 94 [4] 181 96 [43, 78] 182 96 [37, 78, 79, 80] 183 96 [47, 78] 184 96 [54, 83, 84, 91] 185 96 [36] 186 96 [36] 187 96 [38] 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [40] 193 96 [40] 194 96 [45, 82] | 177 | 90 | |
| 180 94 [4] 181 96 [43, 78] 182 96 [37, 78, 79, 80] 183 96 [47, 78] 184 96 [54, 83, 84, 91] 185 96 [35] 186 96 [36] 187 96 [38] 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [40, 81] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | 178 | 90 | $[\ 30,\ 52\]$ |
| 181 96 [43, 78] 182 96 [37, 78, 79, 80] 183 96 [47, 78] 184 96 [54, 83, 84, 91] 185 96 [35] 186 96 [36] 187 96 [38] 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [40, 86, 87, 90] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | 179 | 92 | |
| 182 96 [37, 78, 79, 80] 183 96 [47, 78] 184 96 [54, 83, 84, 91] 185 96 [35] 186 96 [36] 187 96 [38] 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [40, 82] 193 96 [42, 82] 194 96 [45, 82] | 180 | 94 | [4] |
| 183 96 [47, 78] 184 96 [54, 83, 84, 91] 185 96 [35] 186 96 [36] 187 96 [38] 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [54, 86, 87, 90] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | 181 | 96 | $[\ 43,\ 78\]$ |
| 184 96 [54, 83, 84, 91] 185 96 [35] 186 96 [36] 187 96 [38] 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [54, 86, 87, 90] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | 182 | 96 | $[\ 37,\ 78,\ 79,\ 80\]$ |
| 185 96 [35] 186 96 [36] 187 96 [38] 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [54, 86, 87, 90] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | 183 | 96 | [47, 78] |
| 186 96 [36] 187 96 [38] 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [54, 86, 87, 90] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | 184 | 96 | [54, 83, 84, 91] |
| 187 96 [38] 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [54, 86, 87, 90] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | 185 | 96 | [35] |
| 188 96 [39, 81] 189 96 [44, 81] 190 96 [46, 81] 191 96 [54, 86, 87, 90] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | 186 | 96 | [36] |
| 189 96 [44, 81] 190 96 [46, 81] 191 96 [54, 86, 87, 90] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | 187 | 96 | [38] |
| 190 96 [46, 81] 191 96 [54, 86, 87, 90] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | 188 | 96 | [39, 81] |
| 191 96 [54, 86, 87, 90] 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | 189 | 96 | [44, 81] |
| 192 96 [40] 193 96 [42, 82] 194 96 [45, 82] | 190 | 96 | [46, 81] |
| 193 96 [42, 82] 194 96 [45, 82] | 191 | 96 | [54, 86, 87, 90] |
| 194 96 [45, 82] | 192 | 96 | [40] |
| | 193 | 96 | [42, 82] |
| п | 194 | 96 | [45, 82] |
| 195 	 96 	 [48, 82] | 195 | 96 | [48, 82] |
| 196 96 [54, 85, 88, 89] | 196 | 96 | [54, 85, 88, 89] |
| 197 96 [53, 85] | 197 | 96 | |
| 198 96 [53, 84] | 198 | 96 | [53, 84] |
| 199 96 [53, 86] | 199 | 96 | [53, 86] |
| 200 96 [55, 86] | 200 | 96 | [55, 86] |
| 201 96 [55, 85] | 201 | 96 | [55, 85] |
| 202 96 [55, 84] | 202 | 96 | [55, 84] |
| 203 96 [56, 88] | 203 | 96 | [56, 88] |
| 204 96 [56.87] | 204 | 96 | [56, 87] |

| П - | | |
|-----|-----|-----------------|
| 205 | 96 | [56, 83] |
| 206 | 96 | [57, 88] |
| 207 | 96 | [57, 83] |
| 208 | 96 | [57, 87] |
| 209 | 96 | [78] |
| 210 | 96 | [78, 96, 97] |
| 211 | 96 | [78] |
| 212 | 96 | [78, 92, 93] |
| 213 | 96 | [81] |
| 214 | 96 | [81] |
| 215 | 96 | [81] |
| 216 | 96 | [81, 94, 95] |
| 217 | 98 | [24] |
| 218 | 100 | [31] |
| 219 | 100 | [31, 32] |
| 220 | 100 | [32] |
| 221 | 100 | [33, 98] |
| 222 | 102 | [12, 58] |
| 223 | 102 | [13, 58] |
| 224 | 104 | [14, 99] |
| 225 | 104 | [15, 101] |
| 226 | 104 | [15, 99] |
| 227 | 104 | [15, 100] |
| 228 | 104 | [16, 99] |
| 229 | 106 | [4] |
| 230 | 108 | [23, 59] |
| 231 | 108 | [60, 61, 62] |
| 232 | 108 | [61, 63, 105] |
| 233 | 108 | [62, 63] |
| 234 | 108 | [59] |
| 235 | 108 | [59] |
| 236 | 108 | [59] |
| 237 | 108 | [60, 102] |
| 238 | 108 | [61, 103] |
| 239 | 108 | [61, 104] |
| 240 | 108 | [61, 106] |
| 241 | 108 | [62] |
| 242 | 108 | [63, 107] |
| u | | |

| 949 | 110 | [17 94] |
|---------|-----|-----------------------|
| 243 | 110 | [17, 34] |
| 244 245 | 112 | [25, 108] |
| ļļ. | 112 | [26, 108, 109, 110] |
| 246 | 112 | [27, 108] |
| 247 | 114 | [10] |
| 248 | 114 | [10] |
| 249 | 114 | [12, 64] |
| 250 | 114 | [12] |
| 251 | 114 | [12] |
| 252 | 114 | [13, 64] |
| 253 | 116 | [6, 111] |
| 254 | 116 | [8] |
| 255 | 116 | [8] |
| 256 | 118 | [4] |
| 257 | 120 | [4] |
| 258 | 120 | [2] |
| 259 | 120 | [4] |
| 260 | 120 | [2] |
| 261 | 120 | [2] |
| 262 | 120 | [40, 51] |
| 263 | 120 | [37, 66, 113] |
| 264 | 120 | [37, 68, 116] |
| 265 | 120 | [39, 68] |
| 266 | 120 | [42, 68] |
| 267 | 120 | $[\ 37,\ 67,\ 117\]$ |
| 268 | 120 | [39, 67] |
| 269 | 120 | [42, 67] |
| 270 | 120 | [39, 66, 114] |
| 271 | 120 | [41, 52] |
| 272 | 120 | [42, 66, 115] |
| 273 | 120 | [43, 65, 113] |
| 274 | 120 | [44, 65, 114] |
| 275 | 120 | [45, 65, 115] |
| 276 | 120 | [46, 69, 114] |
| 277 | 120 | [47, 69, 113] |
| 278 | 120 | [48, 69, 115] |
| 279 | 120 | [4, 112] |
| 280 | 120 | [3, 112] |
| | | |

| 281 | 120 | [2, 112] |
|-----|-----|-------------------|
| 282 | 122 | [4] |
| 283 | 124 | [6, 118] |
| 284 | 126 | [28, 70] |
| 285 | 126 | [28, 71] |
| 286 | 126 | [29, 73] |
| 287 | 126 | [29, 74] |
| 288 | 126 | [29, 72, 75] |
| 289 | 126 | $[\ 30,\ 75\]$ |
| 290 | 128 | [120, 122, 123] |
| 291 | 128 | [119] |
| 292 | 128 | [119, 120, 121] |
| 293 | 128 | [119] |
| 294 | 128 | [120] |
| 295 | 128 | [122] |
| 296 | 128 | [122, 124, 125] |
| 297 | 128 | [124] |
| 298 | 128 | [124] |
| 299 | 128 | [125] |
| 300 | 128 | [125] |
| 301 | 130 | [17, 49] |
| 302 | 132 | [19, 76] |
| 303 | 132 | [20, 76, 127] |
| 304 | 132 | [21, 76, 126] |
| 305 | 134 | [4] |
| 306 | 136 | [14, 128] |
| 307 | 136 | [15, 128] |
| 308 | 136 | [15, 129] |
| 309 | 136 | [15, 130] |
| 310 | 136 | [16, 128] |
| 311 | 138 | [12, 77] |
| 312 | 138 | [13, 77] |
| 313 | 140 | [33, 50, 131] |
| 314 | 142 | [4] |
| 315 | 144 | [60, 78, 135] |
| 316 | 144 | [61, 78, 136] |
| 317 | 144 | [25, 132] |
| 318 | 144 | [26, 133] |
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| 319 | 144 | [26, 134] |
|-----|-------------------|---------------------------|
| H | $\frac{144}{144}$ | • • |
| 320 | | [26, 132] |
| 321 | 144 | [27] |
| 322 | 144 | [27] |
| 323 | 144 | [27, 132] |
| 324 | 144 | [84, 86, 140] |
| 325 | 144 | [83, 87, 137, 140, 141] |
| 326 | 144 | [90, 91, 140] |
| 327 | 144 | [84, 85, 143] |
| 328 | 144 | [83, 88, 138, 143, 144] |
| 329 | 144 | [89, 91, 143] |
| 330 | 144 | [85, 147] |
| 331 | 144 | [88, 146, 147, 148] |
| 332 | 144 | [89, 147] |
| 333 | 144 | [60, 81, 139] |
| 334 | 144 | [62, 81] |
| 335 | 144 | [61, 82, 142] |
| 336 | 144 | [62, 82] |
| 337 | 144 | [87, 88, 149, 150, 151] |
| 338 | 144 | [85, 86, 150] |
| 339 | 144 | [89, 90, 150] |
| 340 | 144 | [63, 82, 145] |
| 341 | 144 | [92, 135] |
| 342 | 144 | [93, 135] |
| 343 | 144 | [94, 139] |
| 344 | 144 | [95, 139] |
| 345 | 144 | [96, 136] |
| 346 | 144 | [97, 136] |
| 347 | 146 | [4] |
| 348 | 148 | [6, 152] |
| 349 | 148 | [8] |
| 350 | 148 | [8] |
| 351 | 150 | [10] |
| 352 | 150 | [11] |
| 353 | 150 | [12] |
| 354 | 150 | [51, 98] |
| 355 | 150 | [52, 98] |
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