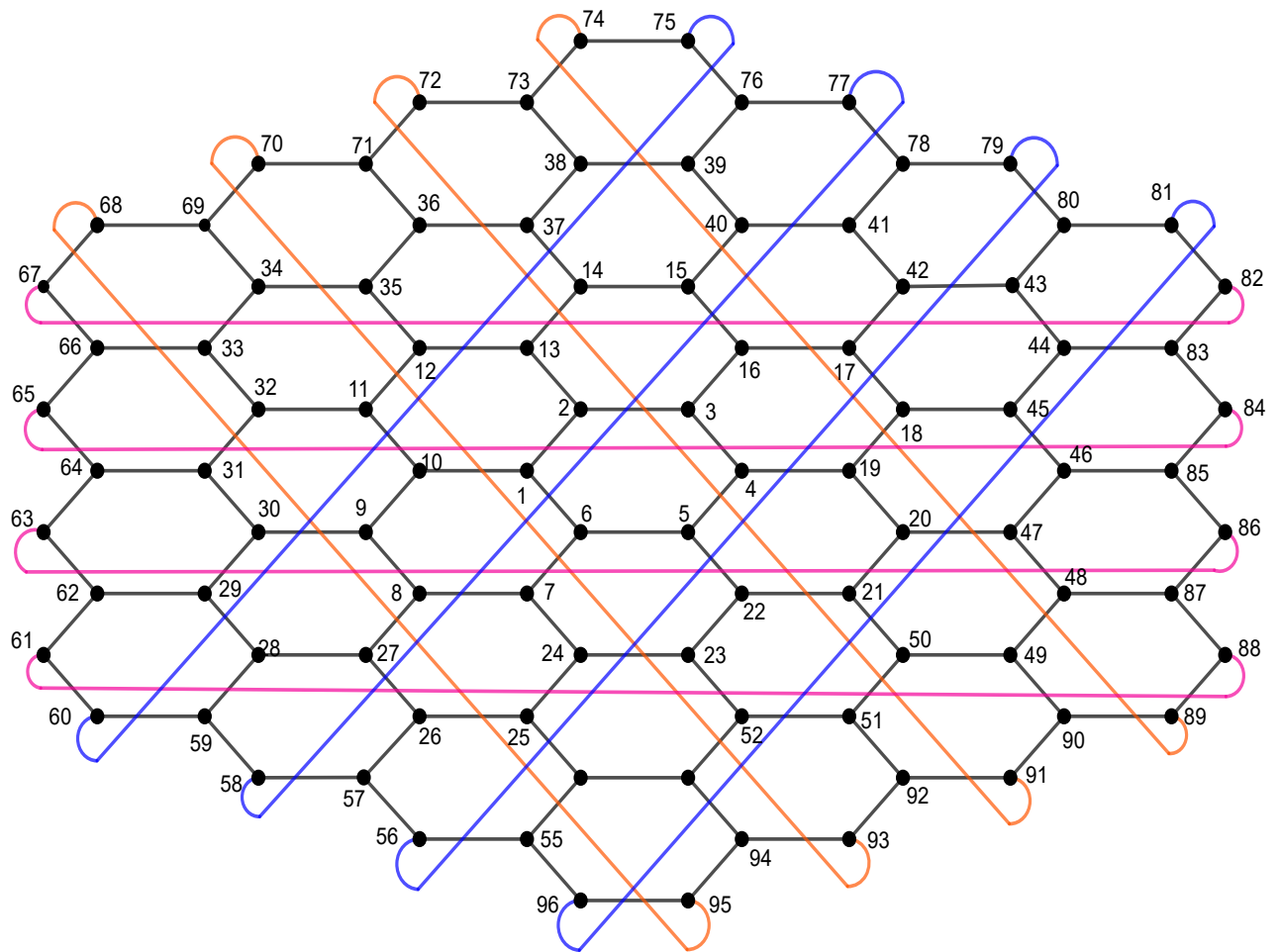


Honeycomb Torus Network of dimension four $HCT(4)$



Metric Dimension - 4

BIGS Index – 1728

Visit: <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003606611-8/almost-deterministic-algorithm-finding-metric-dimension-bigs-index-honeycomb-torus-networks-bright-libin-raj-simon?context=ubx>

Extracted Metric Bases using BIGS algorithm

1. {1, 4, 60, 81}	53. {1, 40, 64, 81}	105. {2, 27, 45, 88}
2. {1, 4, 60, 89}	54. {1, 40, 64, 89}	106. {2, 27, 45, 96}
3. {1, 4, 68, 81}	55. {1, 40, 67, 92}	107. {2, 27, 48, 93}
4. {1, 4, 68, 89}	56. {1, 42, 70, 83}	108. {2, 27, 68, 85}
5. {1, 8, 44, 81}	57. {1, 43, 52, 86}	109. {2, 27, 71, 88}
6. {1, 8, 44, 89}	58. {1, 44, 72, 81}	110. {2, 27, 71, 96}
7. {1, 8, 72, 81}	59. {1, 44, 72, 89}	111. {2, 29, 51, 86}
8. {1, 8, 72, 89}	60. {1, 46, 54, 79}	112. {2, 31, 39, 56}
9. {1, 12, 48, 81}	61. {1, 48, 56, 81}	113. {2, 31, 41, 88}
10. {1, 12, 48, 89}	62. {1, 48, 56, 89}	114. {2, 31, 41, 96}
11. {1, 12, 56, 81}	63. {1, 50, 58, 87}	115. {2, 31, 51, 88}
12. {1, 12, 56, 89}	64. {1, 52, 61, 78}	116. {2, 31, 51, 96}
13. {1, 14, 62, 79}	65. {1, 52, 64, 81}	117. {2, 31, 60, 91}
14. {1, 16, 54, 75}	66. {1, 52, 64, 89}	118. {2, 33, 41, 86}
15. {1, 18, 26, 75}	67. {1, 55, 64, 76}	119. {2, 33, 57, 94}
16. {1, 18, 28, 81}	68. {1, 58, 66, 95}	120. {2, 33, 77, 88}
17. {1, 18, 28, 89}	69. {1, 60, 68, 81}	121. {2, 33, 77, 96}
18. {1, 18, 34, 87}	70. {1, 60, 68, 89}	122. {2, 37, 47, 94}
19. {1, 18, 70, 81}	71. {1, 62, 70, 75}	123. {2, 39, 65, 88}
20. {1, 18, 70, 89}	72. {1, 64, 73, 94}	124. {2, 39, 65, 96}
21. {1, 18, 79, 94}	73. {2, 5, 67, 88}	125. {2, 39, 85, 90}
22. {1, 20, 28, 83}	74. {2, 5, 67, 96}	126. {2, 41, 51, 88}
23. {1, 20, 34, 81}	75. {2, 5, 75, 88}	127. {2, 41, 51, 96}
24. {1, 20, 34, 89}	76. {2, 5, 75, 96}	128. {2, 41, 82, 93}
25. {1, 20, 36, 95}	77. {2, 7, 43, 60}	129. {2, 43, 51, 56}
26. {1, 20, 58, 81}	78. {2, 9, 56, 73}	130. {2, 45, 54, 91}
27. {1, 20, 58, 89}	79. {2, 11, 49, 88}	131. {2, 45, 57, 74}
28. {1, 20, 76, 91}	80. {2, 11, 49, 96}	132. {2, 45, 71, 88}
29. {1, 22, 38, 95}	81. {2, 11, 79, 88}	133. {2, 45, 71, 96}
30. {1, 24, 66, 91}	82. {2, 11, 79, 96}	134. {2, 47, 77, 90}
31. {1, 26, 34, 91}	83. {2, 15, 53, 88}	135. {2, 49, 79, 88}
32. {1, 26, 36, 81}	84. {2, 15, 53, 96}	136. {2, 49, 79, 96}
33. {1, 26, 36, 89}	85. {2, 15, 63, 88}	137. {2, 53, 63, 88}
34. {1, 26, 46, 81}	86. {2, 15, 63, 96}	138. {2, 53, 63, 96}
35. {1, 26, 46, 89}	87. {2, 17, 69, 86}	139. {2, 59, 71, 80}
36. {1, 26, 84, 95}	88. {2, 19, 29, 82}	140. {2, 60, 65, 73}
37. {1, 28, 36, 79}	89. {2, 21, 31, 82}	141. {2, 62, 71, 83}
38. {1, 28, 70, 81}	90. {2, 21, 33, 88}	142. {2, 67, 75, 88}
39. {1, 28, 70, 89}	91. {2, 21, 33, 96}	143. {2, 67, 75, 96}
40. {1, 28, 87, 92}	92. {2, 21, 39, 94}	144. {2, 69, 77, 82}
41. {1, 30, 50, 83}	93. {2, 21, 59, 86}	145. {3, 6, 61, 74}
42. {1, 32, 42, 87}	94. {2, 21, 77, 88}	146. {3, 6, 61, 82}
43. {1, 34, 58, 81}	95. {2, 21, 77, 96}	147. {3, 6, 74, 95}
44. {1, 34, 58, 89}	96. {2, 23, 33, 90}	148. {3, 6, 82, 95}
45. {1, 34, 78, 83}	97. {2, 23, 39, 88}	149. {3, 8, 38, 55}
46. {1, 36, 46, 81}	98. {2, 23, 39, 96}	150. {3, 8, 44, 61}
47. {1, 36, 46, 89}	99. {2, 23, 41, 60}	151. {3, 8, 44, 95}
48. {1, 36, 75, 86}	100. {2, 23, 56, 83}	152. {3, 8, 46, 67}
49. {1, 38, 46, 91}	101. {2, 23, 65, 88}	153. {3, 8, 61, 72}
50. {1, 40, 49, 84}	102. {2, 23, 65, 96}	154. {3, 8, 63, 90}
51. {1, 40, 52, 81}	103. {2, 25, 35, 90}	155. {3, 8, 72, 95}
52. {1, 40, 52, 89}	104. {2, 25, 65, 94}	156. {3, 10, 48, 67}

157. {3, 12, 63, 80}	211. {3, 61, 74, 82}	265. {4, 37, 60, 85}
158. {3, 14, 54, 61}	212. {3, 66, 78, 87}	266. {4, 37, 68, 85}
159. {3, 14, 54, 95}	213. {3, 67, 72, 80}	267. {4, 41, 49, 70}
160. {3, 14, 61, 86}	214. {3, 69, 78, 90}	268. {4, 41, 51, 60}
161. {3, 14, 86, 95}	215. {3, 74, 82, 95}	269. {4, 41, 51, 68}
162. {3, 18, 28, 61}	216. {3, 76, 84, 89}	270. {4, 41, 63, 74}
163. {3, 18, 28, 95}	217. {4, 7, 39, 96}	271. {4, 43, 51, 58}
164. {3, 18, 61, 70}	218. {4, 9, 41, 96}	272. {4, 43, 60, 91}
165. {3, 18, 70, 95}	219. {4, 9, 43, 60}	273. {4, 43, 66, 71}
166. {3, 20, 76, 93}	220. {4, 9, 43, 68}	274. {4, 43, 68, 91}
167. {3, 22, 34, 89}	221. {4, 9, 49, 66}	275. {4, 49, 57, 62}
168. {3, 24, 36, 89}	222. {4, 9, 58, 73}	276. {4, 49, 60, 79}
169. {3, 24, 38, 61}	223. {4, 9, 60, 91}	277. {4, 49, 68, 79}
170. {3, 24, 38, 95}	224. {4, 9, 68, 91}	278. {4, 51, 65, 96}
171. {3, 24, 44, 59}	225. {4, 11, 43, 62}	279. {4, 55, 76, 85}
172. {3, 24, 61, 84}	226. {4, 11, 49, 60}	280. {4, 60, 81, 89}
173. {3, 24, 66, 93}	227. {4, 11, 49, 68}	281. {4, 68, 81, 89}
174. {3, 24, 84, 95}	228. {4, 11, 51, 74}	282. {4, 73, 85, 94}
175. {3, 26, 34, 93}	229. {4, 11, 55, 70}	283. {4, 74, 79, 87}
176. {3, 26, 36, 61}	230. {4, 11, 60, 79}	284. {4, 83, 91, 96}
177. {3, 26, 36, 95}	231. {4, 11, 68, 79}	285. {5, 8, 65, 90}
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192. {3, 36, 44, 63}	246. {4, 25, 60, 85}	300. {5, 14, 75, 86}
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202. {3, 44, 61, 72}	256. {4, 31, 41, 68}	310. {5, 24, 75, 84}
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482. {7, 58, 70, 89}	536. {8, 42, 47, 55}	590. {9, 38, 79, 86}
483. {7, 62, 73, 94}	537. {8, 44, 53, 63}	591. {9, 40, 45, 66}
484. {7, 62, 83, 94}	538. {8, 44, 55, 87}	592. {9, 40, 54, 89}
485. {7, 64, 67, 78}	539. {8, 44, 61, 95}	593. {9, 43, 50, 78}
486. {7, 66, 73, 76}	540. {8, 44, 81, 89}	594. {9, 43, 54, 86}
487. {7, 66, 76, 83}	541. {8, 46, 53, 61}	595. {9, 43, 60, 68}
488. {7, 73, 80, 90}	542. {8, 49, 77, 84}	596. {9, 43, 66, 76}
489. {7, 78, 89, 92}	543. {8, 53, 63, 72}	597. {9, 43, 74, 82}
490. {7, 80, 83, 90}	544. {8, 55, 63, 70}	598. {9, 45, 52, 62}
491. {8, 11, 51, 82}	545. {8, 55, 72, 87}	599. {9, 46, 58, 81}
492. {8, 13, 42, 61}	546. {8, 61, 72, 95}	600. {9, 49, 52, 76}
493. {8, 13, 44, 55}	547. {8, 67, 77, 92}	601. {9, 49, 60, 94}
494. {8, 13, 44, 87}	548. {8, 72, 81, 89}	602. {9, 50, 78, 91}
495. {8, 13, 49, 70}	549. {8, 75, 90, 95}	603. {9, 54, 86, 91}
496. {8, 13, 53, 82}	550. {8, 79, 82, 87}	604. {9, 58, 66, 93}
497. {8, 13, 55, 72}	551. {9, 12, 41, 88}	605. {9, 60, 68, 91}
498. {8, 13, 72, 87}	552. {9, 14, 43, 54}	606. {9, 66, 76, 91}
499. {8, 15, 44, 53}	553. {9, 14, 43, 86}	607. {9, 68, 73, 88}
500. {8, 15, 44, 63}	554. {9, 14, 46, 51}	608. {9, 71, 86, 96}
501. {8, 15, 46, 65}	555. {9, 14, 54, 91}	609. {9, 74, 82, 91}
502. {8, 15, 51, 70}	556. {9, 14, 83, 94}	610. {9, 76, 81, 84}
503. {8, 15, 53, 72}	557. {9, 14, 86, 91}	611. {10, 13, 55, 80}
504. {8, 15, 63, 72}	558. {9, 16, 45, 68}	612. {10, 13, 55, 90}
505. {8, 17, 29, 44}	559. {9, 16, 49, 64}	613. {10, 13, 80, 87}
506. {8, 17, 29, 72}	560. {9, 17, 48, 54}	614. {10, 13, 87, 90}
507. {8, 17, 44, 93}	561. {9, 18, 28, 43}	615. {10, 15, 25, 74}
508. {8, 17, 72, 93}	562. {9, 18, 28, 91}	616. {10, 15, 44, 95}
509. {8, 18, 33, 39}	563. {9, 18, 43, 70}	617. {10, 15, 48, 65}
510. {8, 19, 38, 57}	564. {9, 18, 70, 91}	618. {10, 15, 53, 80}
511. {8, 19, 42, 95}	565. {9, 20, 34, 43}	619. {10, 15, 53, 90}
512. {8, 21, 33, 44}	566. {9, 20, 34, 91}	620. {10, 15, 63, 80}
513. {8, 21, 33, 72}	567. {9, 20, 36, 93}	621. {10, 15, 63, 90}
514. {8, 21, 36, 41}	568. {9, 20, 41, 56}	622. {10, 17, 27, 74}
515. {8, 21, 44, 77}	569. {9, 20, 43, 58}	623. {10, 17, 53, 78}
516. {8, 21, 69, 80}	570. {9, 20, 58, 91}	624. {10, 19, 56, 93}
517. {8, 21, 72, 77}	571. {9, 22, 34, 81}	625. {10, 19, 59, 80}
518. {8, 23, 46, 75}	572. {9, 22, 38, 93}	626. {10, 19, 59, 90}
519. {8, 25, 37, 44}	573. {9, 22, 43, 66}	627. {10, 19, 69, 80}
520. {8, 25, 37, 72}	574. {9, 22, 43, 76}	628. {10, 19, 69, 90}
521. {8, 25, 44, 85}	575. {9, 22, 45, 60}	629. {10, 19, 72, 77}
522. {8, 25, 72, 85}	576. {9, 22, 66, 91}	630. {10, 21, 35, 96}
523. {8, 29, 44, 93}	577. {9, 22, 76, 91}	631. {10, 21, 39, 92}
524. {8, 29, 72, 93}	578. {9, 24, 36, 81}	632. {10, 23, 37, 96}
525. {8, 31, 70, 79}	579. {9, 26, 84, 93}	633. {10, 23, 39, 80}
526. {8, 33, 44, 77}	580. {9, 28, 43, 70}	634. {10, 23, 39, 90}
527. {8, 33, 47, 74}	581. {9, 28, 70, 91}	635. {10, 23, 44, 63}
528. {8, 33, 72, 77}	582. {9, 32, 43, 50}	636. {10, 23, 48, 75}
529. {8, 35, 38, 87}	583. {9, 32, 43, 78}	637. {10, 23, 65, 80}
530. {8, 35, 42, 59}	584. {9, 32, 50, 91}	638. {10, 23, 65, 90}
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808. {13, 24, 44, 57}	862. {14, 23, 39, 86}	916. {15, 29, 32, 90}
809. {13, 25, 60, 66}	863. {14, 23, 54, 65}	917. {15, 29, 66, 74}
810. {13, 26, 36, 55}	864. {14, 23, 65, 86}	918. {15, 30, 42, 53}
811. {13, 26, 36, 87}	865. {14, 24, 43, 49}	919. {15, 30, 42, 63}
812. {13, 26, 46, 55}	866. {14, 26, 33, 75}	920. {15, 30, 53, 92}
813. {13, 26, 46, 87}	867. {14, 27, 43, 88}	921. {15, 30, 63, 92}
814. {13, 28, 53, 68}	868. {14, 27, 52, 69}	922. {15, 34, 50, 61}
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816. {13, 28, 70, 87}	870. {14, 33, 49, 62}	924. {15, 34, 58, 63}
817. {13, 30, 42, 55}	871. {14, 33, 54, 77}	925. {15, 36, 56, 65}
818. {13, 30, 42, 87}	872. {14, 33, 77, 86}	926. {15, 38, 53, 84}
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820. {13, 30, 55, 92}	874. {14, 35, 47, 86}	928. {15, 42, 53, 92}
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824. {13, 36, 46, 55}	878. {14, 39, 65, 86}	932. {15, 44, 63, 72}
825. {13, 36, 46, 87}	879. {14, 41, 84, 93}	933. {15, 48, 58, 93}
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830. {13, 42, 87, 92}	884. {14, 47, 54, 57}	938. {15, 58, 68, 85}
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833. {13, 44, 72, 87}	887. {14, 51, 77, 96}	941. {15, 63, 80, 90}
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838. {13, 55, 66, 76}	892. {14, 59, 93, 96}	946. {16, 19, 62, 69}
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840. {13, 58, 70, 81}	894. {14, 62, 67, 89}	948. {16, 21, 28, 79}
841. {13, 61, 64, 92}	895. {14, 64, 81, 91}	949. {16, 21, 33, 62}
842. {13, 61, 72, 84}	896. {14, 67, 75, 86}	950. {16, 21, 33, 94}
843. {13, 62, 87, 94}	897. {14, 69, 77, 84}	951. {16, 21, 35, 88}
844. {13, 66, 76, 87}	898. {15, 18, 51, 60}	952. {16, 21, 54, 67}
845. {13, 78, 81, 92}	899. {15, 20, 26, 31}	953. {16, 21, 62, 77}
846. {13, 80, 87, 90}	900. {15, 20, 34, 53}	954. {16, 21, 77, 94}
847. {14, 17, 31, 96}	901. {15, 20, 34, 63}	955. {16, 23, 33, 92}
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849. {14, 19, 33, 96}	903. {15, 20, 55, 66}	957. {16, 25, 35, 92}
850. {14, 19, 52, 75}	904. {15, 20, 58, 63}	958. {16, 25, 60, 83}
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852. {14, 19, 54, 69}	906. {15, 22, 29, 78}	960. {16, 27, 73, 96}
853. {14, 19, 59, 86}	907. {15, 23, 28, 34}	961. {16, 28, 33, 75}
854. {14, 19, 69, 86}	908. {15, 24, 38, 53}	962. {16, 30, 67, 73}
855. {14, 21, 26, 79}	909. {15, 24, 38, 63}	963. {16, 31, 41, 62}
856. {14, 21, 31, 84}	910. {15, 24, 53, 84}	964. {16, 31, 41, 94}
857. {14, 21, 33, 54}	911. {15, 24, 63, 84}	965. {16, 31, 51, 62}
858. {14, 21, 33, 86}	912. {15, 25, 32, 76}	966. {16, 31, 51, 94}

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976.	{16, 41, 51, 94}	1030.	{17, 48, 56, 93}	1084.	{19, 24, 29, 74}
977.	{16, 43, 64, 71}	1031.	{17, 50, 53, 66}	1085.	{19, 24, 33, 86}
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981.	{16, 49, 54, 81}	1035.	{17, 58, 61, 66}	1089.	{19, 24, 59, 84}
982.	{16, 49, 62, 79}	1036.	{17, 60, 68, 93}	1090.	{19, 24, 69, 84}
983.	{16, 49, 79, 94}	1037.	{17, 66, 76, 93}	1091.	{19, 26, 36, 59}
984.	{16, 52, 83, 89}	1038.	{17, 69, 74, 96}	1092.	{19, 26, 36, 69}
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986.	{16, 55, 87, 94}	1040.	{17, 76, 84, 91}	1094.	{19, 26, 46, 69}
987.	{16, 57, 68, 71}	1041.	{18, 21, 26, 67}	1095.	{19, 27, 90, 96}
988.	{16, 57, 85, 88}	1042.	{18, 23, 28, 39}	1096.	{19, 29, 54, 88}
989.	{16, 59, 62, 69}	1043.	{18, 23, 28, 65}	1097.	{19, 30, 40, 57}
990.	{16, 59, 69, 94}	1044.	{18, 23, 31, 36}	1098.	{19, 30, 67, 90}
991.	{16, 62, 73, 83}	1045.	{18, 23, 39, 70}	1099.	{19, 32, 52, 71}
992.	{16, 65, 77, 88}	1046.	{18, 23, 62, 73}	1100.	{19, 32, 61, 80}
993.	{16, 68, 79, 91}	1047.	{18, 23, 65, 70}	1101.	{19, 33, 38, 82}
994.	{16, 73, 83, 94}	1048.	{18, 25, 30, 87}	1102.	{19, 35, 74, 80}
995.	{17, 20, 36, 61}	1049.	{18, 25, 39, 68}	1103.	{19, 36, 46, 59}
996.	{17, 22, 27, 82}	1050.	{18, 26, 49, 81}	1104.	{19, 36, 46, 69}
997.	{17, 22, 29, 66}	1051.	{18, 28, 35, 47}	1105.	{19, 38, 59, 84}
998.	{17, 22, 29, 76}	1052.	{18, 28, 35, 57}	1106.	{19, 38, 69, 84}
999.	{17, 22, 34, 91}	1053.	{18, 28, 39, 65}	1107.	{19, 40, 52, 59}
1000.	{17, 22, 38, 61}	1054.	{18, 28, 43, 91}	1108.	{19, 40, 52, 69}
1001.	{17, 22, 66, 93}	1055.	{18, 28, 47, 57}	1109.	{19, 40, 59, 64}
1002.	{17, 22, 76, 93}	1056.	{18, 28, 49, 79}	1110.	{19, 40, 64, 69}
1003.	{17, 24, 29, 38}	1057.	{18, 28, 55, 87}	1111.	{19, 40, 71, 86}
1004.	{17, 24, 29, 84}	1058.	{18, 28, 61, 95}	1112.	{19, 44, 57, 92}
1005.	{17, 24, 31, 86}	1059.	{18, 28, 81, 89}	1113.	{19, 48, 71, 78}
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1007.	{17, 24, 38, 93}	1061.	{18, 31, 60, 79}	1115.	{19, 52, 59, 64}
1008.	{17, 24, 84, 93}	1062.	{18, 33, 49, 94}	1116.	{19, 52, 64, 69}
1009.	{17, 26, 61, 84}	1063.	{18, 34, 37, 55}	1117.	{19, 54, 59, 86}
1010.	{17, 27, 32, 76}	1064.	{18, 34, 73, 81}	1118.	{19, 54, 69, 86}
1011.	{17, 27, 50, 80}	1065.	{18, 35, 47, 70}	1119.	{19, 56, 75, 86}
1012.	{17, 29, 38, 84}	1066.	{18, 35, 57, 70}	1120.	{19, 59, 62, 94}
1013.	{17, 29, 40, 52}	1067.	{18, 39, 65, 70}	1121.	{19, 59, 66, 76}
1014.	{17, 29, 40, 64}	1068.	{18, 41, 63, 72}	1122.	{19, 59, 80, 90}
1015.	{17, 29, 44, 72}	1069.	{18, 43, 70, 91}	1123.	{19, 62, 69, 94}
1016.	{17, 29, 48, 56}	1070.	{18, 47, 57, 70}	1124.	{19, 64, 75, 78}
1017.	{17, 29, 52, 64}	1071.	{18, 49, 70, 79}	1125.	{19, 64, 92, 95}
1018.	{17, 29, 60, 68}	1072.	{18, 53, 58, 65}	1126.	{19, 66, 69, 76}
1019.	{17, 29, 66, 76}	1073.	{18, 55, 60, 63}	1127.	{19, 69, 80, 90}
1020.	{17, 29, 74, 82}	1074.	{18, 55, 70, 87}	1128.	{19, 72, 84, 95}

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1131.	{20, 25, 32, 87}	1185.	{21, 48, 56, 77}	1239.	{23, 32, 39, 50}
1132.	{20, 27, 34, 45}	1186.	{21, 52, 64, 77}	1240.	{23, 32, 39, 78}
1133.	{20, 27, 34, 71}	1187.	{21, 54, 77, 86}	1241.	{23, 32, 50, 65}
1134.	{20, 27, 45, 58}	1188.	{21, 57, 72, 82}	1242.	{23, 32, 65, 78}
1135.	{20, 27, 58, 71}	1189.	{21, 59, 74, 96}	1243.	{23, 33, 62, 96}
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1137.	{20, 29, 43, 76}	1191.	{21, 62, 67, 70}	1245.	{23, 36, 56, 75}
1138.	{20, 31, 68, 91}	1192.	{21, 62, 77, 94}	1246.	{23, 37, 42, 90}
1139.	{20, 32, 37, 83}	1193.	{21, 77, 88, 96}	1247.	{23, 39, 48, 56}
1140.	{20, 34, 43, 91}	1194.	{21, 79, 86, 94}	1248.	{23, 39, 50, 78}
1141.	{20, 34, 45, 71}	1195.	{22, 27, 37, 78}	1249.	{23, 39, 54, 86}
1142.	{20, 34, 49, 79}	1196.	{22, 27, 45, 66}	1250.	{23, 39, 74, 82}
1143.	{20, 34, 53, 63}	1197.	{22, 27, 45, 76}	1251.	{23, 39, 80, 90}
1144.	{20, 34, 67, 75}	1198.	{22, 27, 64, 91}	1252.	{23, 39, 88, 96}
1145.	{20, 34, 73, 83}	1199.	{22, 27, 66, 71}	1253.	{23, 41, 48, 96}
1146.	{20, 34, 81, 89}	1200.	{22, 27, 71, 76}	1254.	{23, 44, 70, 77}
1147.	{20, 36, 43, 89}	1201.	{22, 29, 34, 95}	1255.	{23, 48, 56, 65}
1148.	{20, 37, 53, 60}	1202.	{22, 29, 66, 93}	1256.	{23, 50, 65, 78}
1149.	{20, 39, 63, 70}	1203.	{22, 29, 76, 93}	1257.	{23, 54, 65, 86}
1150.	{20, 43, 58, 91}	1204.	{22, 31, 41, 66}	1258.	{23, 56, 63, 90}
1151.	{20, 45, 58, 71}	1205.	{22, 31, 41, 76}	1259.	{23, 60, 70, 85}
1152.	{20, 49, 58, 79}	1206.	{22, 31, 51, 66}	1260.	{23, 65, 74, 82}
1153.	{20, 51, 56, 65}	1207.	{22, 31, 51, 76}	1261.	{23, 65, 80, 90}
1154.	{20, 53, 58, 63}	1208.	{22, 32, 55, 61}	1262.	{23, 65, 88, 96}
1155.	{20, 56, 83, 91}	1209.	{22, 35, 45, 64}	1263.	{23, 68, 83, 88}
1156.	{20, 58, 67, 75}	1210.	{22, 35, 55, 74}	1264.	{23, 72, 75, 80}
1157.	{20, 58, 73, 83}	1211.	{22, 37, 68, 87}	1265.	{24, 27, 38, 45}
1158.	{20, 58, 81, 89}	1212.	{22, 38, 43, 89}	1266.	{24, 27, 38, 71}
1159.	{20, 61, 76, 81}	1213.	{22, 40, 81, 87}	1267.	{24, 27, 45, 84}
1160.	{20, 63, 78, 95}	1214.	{22, 41, 51, 66}	1268.	{24, 27, 71, 84}
1161.	{20, 65, 68, 73}	1215.	{22, 41, 51, 76}	1269.	{24, 29, 36, 95}
1162.	{21, 24, 31, 74}	1216.	{22, 43, 66, 91}	1270.	{24, 29, 38, 93}
1163.	{21, 28, 65, 72}	1217.	{22, 43, 76, 91}	1271.	{24, 29, 43, 66}
1164.	{21, 30, 35, 94}	1218.	{22, 45, 66, 71}	1272.	{24, 29, 84, 93}
1165.	{21, 30, 44, 75}	1219.	{22, 45, 71, 76}	1273.	{24, 33, 72, 79}
1166.	{21, 31, 54, 88}	1220.	{22, 45, 78, 93}	1274.	{24, 35, 40, 59}
1167.	{21, 33, 40, 52}	1221.	{22, 49, 57, 64}	1275.	{24, 35, 49, 82}
1168.	{21, 33, 40, 64}	1222.	{22, 53, 78, 85}	1276.	{24, 38, 45, 71}
1169.	{21, 33, 44, 72}	1223.	{22, 55, 66, 87}	1277.	{24, 38, 49, 79}
1170.	{21, 33, 48, 56}	1224.	{22, 55, 76, 87}	1278.	{24, 38, 53, 63}
1171.	{21, 33, 52, 64}	1225.	{22, 57, 60, 71}	1279.	{24, 38, 59, 69}
1172.	{21, 33, 54, 86}	1226.	{22, 59, 66, 69}	1280.	{24, 38, 61, 95}
1173.	{21, 33, 60, 68}	1227.	{22, 59, 69, 76}	1281.	{24, 38, 67, 75}
1174.	{21, 33, 62, 94}	1228.	{22, 60, 79, 91}	1282.	{24, 40, 47, 55}
1175.	{21, 33, 88, 96}	1229.	{22, 63, 82, 93}	1283.	{24, 41, 74, 93}
1176.	{21, 35, 42, 90}	1230.	{22, 66, 73, 83}	1284.	{24, 44, 47, 69}
1177.	{21, 36, 67, 86}	1231.	{22, 71, 82, 85}	1285.	{24, 44, 87, 95}
1178.	{21, 38, 54, 59}	1232.	{22, 73, 76, 83}	1286.	{24, 45, 71, 84}
1179.	{21, 39, 42, 62}	1233.	{23, 26, 63, 72}	1287.	{24, 49, 79, 84}
1180.	{21, 39, 80, 88}	1234.	{23, 28, 39, 70}	1288.	{24, 51, 77, 86}
1181.	{21, 40, 52, 77}	1235.	{23, 28, 42, 67}	1289.	{24, 53, 63, 84}
1182.	{21, 40, 64, 77}	1236.	{23, 28, 65, 70}	1290.	{24, 59, 69, 84}

1291.	{24, 59, 86, 93}	1345.	{26, 36, 59, 69}	1399.	{27, 68, 76, 91}
1292.	{24, 61, 66, 81}	1346.	{26, 36, 61, 95}	1400.	{27, 71, 88, 96}
1293.	{24, 61, 84, 95}	1347.	{26, 36, 67, 75}	1401.	{28, 31, 44, 53}
1294.	{24, 64, 79, 89}	1348.	{26, 36, 73, 83}	1402.	{28, 33, 36, 49}
1295.	{24, 67, 75, 84}	1349.	{26, 36, 81, 89}	1403.	{28, 35, 47, 70}
1296.	{24, 69, 74, 77}	1350.	{26, 39, 48, 53}	1404.	{28, 35, 57, 70}
1297.	{25, 30, 35, 80}	1351.	{26, 39, 67, 72}	1405.	{28, 36, 67, 89}
1298.	{25, 30, 37, 42}	1352.	{26, 41, 46, 51}	1406.	{28, 37, 55, 92}
1299.	{25, 30, 37, 92}	1353.	{26, 41, 65, 70}	1407.	{28, 39, 46, 51}
1300.	{25, 30, 42, 85}	1354.	{26, 41, 86, 91}	1408.	{28, 39, 65, 70}
1301.	{25, 30, 50, 73}	1355.	{26, 43, 84, 89}	1409.	{28, 39, 83, 94}
1302.	{25, 30, 85, 92}	1356.	{26, 46, 55, 87}	1410.	{28, 41, 44, 49}
1303.	{25, 32, 37, 50}	1357.	{26, 46, 59, 69}	1411.	{28, 41, 63, 68}
1304.	{25, 32, 37, 78}	1358.	{26, 46, 61, 95}	1412.	{28, 43, 70, 91}
1305.	{25, 32, 50, 85}	1359.	{26, 46, 67, 75}	1413.	{28, 47, 57, 70}
1306.	{25, 32, 78, 85}	1360.	{26, 46, 73, 83}	1414.	{28, 49, 70, 79}
1307.	{25, 34, 73, 78}	1361.	{26, 46, 81, 89}	1415.	{28, 55, 70, 87}
1308.	{25, 35, 62, 96}	1362.	{26, 48, 75, 95}	1416.	{28, 61, 70, 95}
1309.	{25, 37, 40, 52}	1363.	{27, 30, 42, 45}	1417.	{28, 68, 79, 87}
1310.	{25, 37, 40, 64}	1364.	{27, 30, 42, 71}	1418.	{28, 70, 81, 89}
1311.	{25, 37, 42, 92}	1365.	{27, 30, 45, 92}	1419.	{28, 73, 81, 92}
1312.	{25, 37, 44, 72}	1366.	{27, 30, 71, 92}	1420.	{29, 36, 41, 48}
1313.	{25, 37, 48, 56}	1367.	{27, 32, 37, 90}	1421.	{29, 38, 43, 46}
1314.	{25, 37, 50, 78}	1368.	{27, 32, 45, 50}	1422.	{29, 38, 51, 54}
1315.	{25, 37, 52, 64}	1369.	{27, 32, 45, 78}	1423.	{29, 38, 84, 93}
1316.	{25, 37, 60, 68}	1370.	{27, 32, 50, 71}	1424.	{29, 40, 52, 93}
1317.	{25, 37, 80, 90}	1371.	{27, 32, 52, 83}	1425.	{29, 40, 64, 93}
1318.	{25, 40, 52, 85}	1372.	{27, 32, 71, 78}	1426.	{29, 44, 72, 93}
1319.	{25, 40, 64, 85}	1373.	{27, 34, 45, 58}	1427.	{29, 46, 58, 95}
1320.	{25, 42, 62, 65}	1374.	{27, 34, 58, 71}	1428.	{29, 48, 56, 93}
1321.	{25, 42, 70, 73}	1375.	{27, 35, 82, 88}	1429.	{29, 48, 69, 80}
1322.	{25, 42, 85, 92}	1376.	{27, 37, 66, 74}	1430.	{29, 50, 66, 71}
1323.	{25, 44, 72, 85}	1377.	{27, 38, 45, 84}	1431.	{29, 51, 74, 96}
1324.	{25, 45, 50, 66}	1378.	{27, 38, 71, 84}	1432.	{29, 52, 64, 93}
1325.	{25, 45, 82, 90}	1379.	{27, 40, 45, 52}	1433.	{29, 60, 68, 93}
1326.	{25, 47, 68, 74}	1380.	{27, 40, 45, 64}	1434.	{29, 66, 76, 93}
1327.	{25, 48, 56, 85}	1381.	{27, 40, 52, 71}	1435.	{29, 71, 82, 90}
1328.	{25, 50, 78, 85}	1382.	{27, 40, 64, 71}	1436.	{29, 74, 82, 93}
1329.	{25, 52, 64, 85}	1383.	{27, 40, 83, 86}	1437.	{29, 76, 84, 95}
1330.	{25, 58, 70, 87}	1384.	{27, 40, 91, 94}	1438.	{30, 35, 40, 87}
1331.	{25, 60, 68, 85}	1385.	{27, 42, 45, 92}	1439.	{30, 35, 42, 47}
1332.	{25, 65, 80, 88}	1386.	{27, 42, 71, 92}	1440.	{30, 35, 42, 57}
1333.	{25, 78, 87, 92}	1387.	{27, 45, 50, 78}	1441.	{30, 35, 47, 92}
1334.	{25, 80, 85, 90}	1388.	{27, 45, 52, 64}	1442.	{30, 35, 57, 92}
1335.	{26, 29, 34, 43}	1389.	{27, 45, 66, 76}	1443.	{30, 37, 42, 85}
1336.	{26, 31, 36, 41}	1390.	{27, 45, 88, 96}	1444.	{30, 37, 85, 92}
1337.	{26, 31, 36, 51}	1391.	{27, 47, 52, 76}	1445.	{30, 39, 80, 85}
1338.	{26, 31, 38, 49}	1392.	{27, 47, 60, 94}	1446.	{30, 40, 61, 69}
1339.	{26, 31, 41, 46}	1393.	{27, 48, 78, 83}	1447.	{30, 42, 45, 71}
1340.	{26, 31, 46, 51}	1394.	{27, 50, 71, 78}	1448.	{30, 42, 47, 57}
1341.	{26, 33, 44, 51}	1395.	{27, 52, 64, 71}	1449.	{30, 42, 49, 79}
1342.	{26, 34, 61, 81}	1396.	{27, 56, 69, 86}	1450.	{30, 42, 53, 63}
1343.	{26, 36, 41, 51}	1397.	{27, 64, 69, 78}	1451.	{30, 42, 55, 87}
1344.	{26, 36, 55, 87}	1398.	{27, 66, 71, 76}	1452.	{30, 42, 67, 75}

1453.	{30, 45, 71, 92}	1507.	{32, 50, 61, 95}	1561.	{35, 52, 57, 64}
1454.	{30, 47, 57, 92}	1508.	{32, 50, 73, 83}	1562.	{35, 52, 76, 79}
1455.	{30, 47, 69, 72}	1509.	{32, 52, 59, 67}	1563.	{35, 52, 84, 87}
1456.	{30, 47, 77, 80}	1510.	{32, 53, 85, 90}	1564.	{35, 54, 57, 86}
1457.	{30, 49, 79, 92}	1511.	{32, 56, 75, 83}	1565.	{35, 57, 62, 94}
1458.	{30, 50, 55, 89}	1512.	{32, 61, 78, 95}	1566.	{35, 57, 74, 82}
1459.	{30, 52, 75, 81}	1513.	{32, 63, 76, 93}	1567.	{35, 59, 64, 92}
1460.	{30, 53, 63, 92}	1514.	{32, 71, 76, 85}	1568.	{35, 59, 72, 84}
1461.	{30, 55, 87, 92}	1515.	{32, 73, 78, 83}	1569.	{35, 60, 79, 94}
1462.	{30, 57, 85, 94}	1516.	{33, 38, 41, 54}	1570.	{36, 39, 44, 53}
1463.	{30, 65, 77, 94}	1517.	{33, 40, 52, 77}	1571.	{36, 41, 46, 51}
1464.	{30, 67, 75, 92}	1518.	{33, 40, 64, 77}	1572.	{36, 44, 75, 95}
1465.	{30, 72, 87, 95}	1519.	{33, 41, 74, 96}	1573.	{36, 46, 55, 87}
1466.	{31, 34, 39, 48}	1520.	{33, 42, 57, 62}	1574.	{36, 46, 59, 69}
1467.	{31, 36, 41, 46}	1521.	{33, 44, 59, 90}	1575.	{36, 46, 61, 95}
1468.	{31, 36, 43, 54}	1522.	{33, 44, 72, 77}	1576.	{36, 46, 67, 75}
1469.	{31, 36, 46, 51}	1523.	{33, 46, 49, 54}	1577.	{36, 46, 73, 83}
1470.	{31, 39, 68, 88}	1524.	{33, 46, 70, 75}	1578.	{36, 46, 81, 89}
1471.	{31, 41, 60, 68}	1525.	{33, 48, 56, 77}	1579.	{36, 49, 81, 86}
1472.	{31, 41, 62, 94}	1526.	{33, 52, 64, 77}	1580.	{36, 51, 58, 63}
1473.	{31, 41, 66, 76}	1527.	{33, 54, 77, 86}	1581.	{36, 51, 79, 84}
1474.	{31, 41, 74, 82}	1528.	{33, 57, 80, 88}	1582.	{36, 53, 56, 61}
1475.	{31, 41, 80, 90}	1529.	{33, 60, 68, 77}	1583.	{37, 40, 52, 85}
1476.	{31, 41, 88, 96}	1530.	{33, 62, 77, 94}	1584.	{37, 40, 64, 85}
1477.	{31, 44, 74, 79}	1531.	{33, 75, 86, 94}	1585.	{37, 42, 47, 62}
1478.	{31, 46, 56, 93}	1532.	{33, 77, 88, 96}	1586.	{37, 42, 85, 92}
1479.	{31, 46, 72, 77}	1533.	{34, 41, 46, 53}	1587.	{37, 44, 72, 85}
1480.	{31, 48, 91, 96}	1534.	{34, 43, 48, 51}	1588.	{37, 45, 60, 96}
1481.	{31, 51, 60, 68}	1535.	{34, 43, 58, 91}	1589.	{37, 47, 80, 88}
1482.	{31, 51, 62, 94}	1536.	{34, 45, 58, 71}	1590.	{37, 48, 56, 85}
1483.	{31, 51, 66, 76}	1537.	{34, 49, 58, 79}	1591.	{37, 50, 55, 58}
1484.	{31, 51, 74, 82}	1538.	{34, 51, 60, 65}	1592.	{37, 50, 63, 66}
1485.	{31, 51, 80, 90}	1539.	{34, 53, 58, 63}	1593.	{37, 50, 78, 85}
1486.	{31, 51, 88, 96}	1540.	{34, 53, 76, 87}	1594.	{37, 52, 64, 85}
1487.	{31, 53, 60, 82}	1541.	{34, 55, 78, 89}	1595.	{37, 58, 70, 83}
1488.	{32, 35, 47, 50}	1542.	{34, 58, 67, 75}	1596.	{37, 60, 68, 85}
1489.	{32, 35, 47, 78}	1543.	{34, 58, 73, 83}	1597.	{37, 63, 82, 90}
1490.	{32, 35, 50, 57}	1544.	{34, 58, 81, 89}	1598.	{37, 78, 83, 92}
1491.	{32, 35, 57, 78}	1545.	{34, 60, 83, 91}	1599.	{37, 80, 85, 90}
1492.	{32, 37, 42, 55}	1546.	{35, 40, 45, 94}	1600.	{38, 45, 71, 84}
1493.	{32, 37, 50, 85}	1547.	{35, 40, 47, 52}	1601.	{38, 46, 61, 81}
1494.	{32, 37, 78, 85}	1548.	{35, 40, 47, 64}	1602.	{38, 47, 64, 69}
1495.	{32, 39, 50, 65}	1549.	{35, 40, 52, 57}	1603.	{38, 49, 55, 66}
1496.	{32, 39, 65, 78}	1550.	{35, 40, 57, 64}	1604.	{38, 49, 79, 84}
1497.	{32, 40, 89, 95}	1551.	{35, 42, 47, 92}	1605.	{38, 51, 77, 82}
1498.	{32, 42, 73, 81}	1552.	{35, 42, 57, 92}	1606.	{38, 53, 63, 84}
1499.	{32, 43, 50, 91}	1553.	{35, 44, 87, 92}	1607.	{38, 59, 69, 84}
1500.	{32, 43, 78, 91}	1554.	{35, 45, 68, 76}	1608.	{38, 59, 82, 93}
1501.	{32, 45, 50, 71}	1555.	{35, 47, 50, 78}	1609.	{38, 61, 84, 95}
1502.	{32, 45, 56, 59}	1556.	{35, 47, 52, 64}	1610.	{38, 64, 87, 95}
1503.	{32, 45, 71, 78}	1557.	{35, 47, 54, 86}	1611.	{38, 67, 75, 84}
1504.	{32, 45, 90, 93}	1558.	{35, 47, 62, 94}	1612.	{39, 48, 56, 65}
1505.	{32, 47, 50, 57}	1559.	{35, 47, 74, 82}	1613.	{39, 50, 65, 78}
1506.	{32, 47, 57, 78}	1560.	{35, 50, 57, 78}	1614.	{39, 54, 65, 86}

1615.	{39, 56, 67, 90}	1669.	{44, 72, 81, 89}	1723.	{60, 68, 81, 89}
1616.	{39, 62, 85, 96}	1670.	{45, 50, 71, 78}	1724.	{61, 74, 82, 95}
1617.	{39, 65, 74, 82}	1671.	{45, 52, 64, 71}	1725.	{62, 73, 83, 94}
1618.	{39, 65, 80, 90}	1672.	{45, 54, 59, 64}	1726.	{66, 73, 76, 83}
1619.	{39, 65, 88, 96}	1673.	{45, 56, 73, 86}	1727.	{67, 75, 88, 96}
1620.	{40, 45, 50, 59}	1674.	{45, 64, 73, 78}	1728.	{73, 80, 83, 90}
1621.	{40, 45, 52, 71}	1675.	{45, 66, 71, 76}		
1622.	{40, 45, 64, 71}	1676.	{45, 66, 74, 93}		
1623.	{40, 47, 52, 57}	1677.	{45, 71, 88, 96}		
1624.	{40, 47, 57, 64}	1678.	{46, 54, 67, 89}		
1625.	{40, 49, 57, 94}	1679.	{47, 50, 57, 78}		
1626.	{40, 50, 75, 83}	1680.	{47, 52, 57, 64}		
1627.	{40, 52, 59, 69}	1681.	{47, 54, 57, 86}		
1628.	{40, 52, 81, 89}	1682.	{47, 55, 64, 92}		
1629.	{40, 57, 66, 71}	1683.	{47, 55, 72, 84}		
1630.	{40, 59, 64, 69}	1684.	{47, 57, 62, 94}		
1631.	{40, 59, 67, 86}	1685.	{47, 57, 74, 82}		
1632.	{40, 64, 81, 89}	1686.	{47, 62, 77, 96}		
1633.	{40, 66, 79, 91}	1687.	{48, 56, 67, 75}		
1634.	{41, 49, 60, 82}	1688.	{48, 56, 73, 83}		
1635.	{41, 51, 60, 68}	1689.	{48, 56, 81, 89}		
1636.	{41, 51, 62, 94}	1690.	{48, 59, 67, 78}		
1637.	{41, 51, 66, 76}	1691.	{48, 65, 73, 96}		
1638.	{41, 51, 74, 82}	1692.	{49, 57, 68, 76}		
1639.	{41, 51, 80, 90}	1693.	{49, 60, 68, 79}		
1640.	{41, 51, 88, 96}	1694.	{49, 62, 70, 81}		
1641.	{41, 54, 88, 93}	1695.	{49, 62, 79, 94}		
1642.	{42, 45, 71, 92}	1696.	{49, 79, 88, 96}		
1643.	{42, 47, 52, 69}	1697.	{50, 58, 73, 81}		
1644.	{42, 47, 57, 92}	1698.	{50, 61, 78, 95}		
1645.	{42, 49, 79, 92}	1699.	{50, 63, 80, 93}		
1646.	{42, 50, 61, 67}	1700.	{50, 71, 80, 85}		
1647.	{42, 52, 87, 95}	1701.	{50, 73, 78, 83}		
1648.	{42, 53, 63, 92}	1702.	{52, 57, 62, 71}		
1649.	{42, 55, 70, 89}	1703.	{52, 59, 64, 69}		
1650.	{42, 55, 87, 92}	1704.	{52, 61, 69, 84}		
1651.	{42, 57, 85, 90}	1705.	{52, 62, 79, 91}		
1652.	{42, 65, 77, 90}	1706.	{52, 64, 81, 89}		
1653.	{42, 67, 75, 92}	1707.	{53, 61, 72, 80}		
1654.	{43, 50, 78, 91}	1708.	{53, 63, 74, 82}		
1655.	{43, 51, 68, 88}	1709.	{53, 63, 80, 90}		
1656.	{43, 52, 71, 76}	1710.	{53, 63, 88, 96}		
1657.	{43, 54, 62, 73}	1711.	{53, 66, 74, 85}		
1658.	{43, 54, 86, 91}	1712.	{54, 59, 69, 86}		
1659.	{43, 58, 66, 89}	1713.	{54, 61, 86, 95}		
1660.	{43, 60, 68, 91}	1714.	{54, 64, 75, 83}		
1661.	{43, 60, 71, 94}	1715.	{54, 67, 75, 86}		
1662.	{43, 66, 76, 91}	1716.	{54, 69, 77, 88}		
1663.	{43, 74, 82, 91}	1717.	{55, 62, 87, 94}		
1664.	{44, 53, 63, 72}	1718.	{55, 66, 76, 87}		
1665.	{44, 55, 63, 74}	1719.	{55, 80, 87, 90}		
1666.	{44, 55, 72, 87}	1720.	{59, 62, 69, 94}		
1667.	{44, 61, 69, 92}	1721.	{59, 66, 69, 76}		
1668.	{44, 61, 72, 95}	1722.	{59, 69, 80, 90}		