

Word and Polygon List for Obtuse Triangular Billiards II

Richard Evan Schwartz *

August 19, 2008

Abstract

This is the list of words and polygons we use for our paper.

1 Notation

To compress our notation for the words, we replace all the length 4 strings by letters. There are 24 allowable strings and we order them lexicographically. The list looks like this

1. $a = 1212$
2. $b = 1213$
3. $c = 1231$
4. $d = 1232$

and so on. If the length of the word is not divisible by 4 we simply list the last two digits of the word. The words are indexed as in the paper.

To describe our dyadic polygons, we use the following notation:

$$\begin{vmatrix} n_1 & k_1 \\ n_2 & k_2 \end{vmatrix} = \frac{\pi}{2} \times \left(\frac{k_1}{2^{n_1}}, \frac{k_2}{2^{n_2}} \right) \quad [\text{example : } \begin{vmatrix} 2 & 1 \\ 2 & 3 \end{vmatrix} = (\frac{\pi}{8}, \frac{3\pi}{8})] \quad (1)$$

For each dyadic polygon, we will list out the vertices as a succession of these matrices.

* This research is supported by N.S.F. Grant DMS-0305047 and by a Guggenheim Fellowship

1.1 The First 6 Regions

```

1 : dummy
| 0 0 | | 9 455 | | 0 0 |
| 9 455 | | 0 0 | | 0 0 |
2 : dummy
| 0 0 | | 1 1 | | 0 1 |
| 0 0 | | 1 1 | | 0 0 |
3 :
| 2 1 | | 0 0 | | 0 0 |
| 2 3 | | 2 3 | | 0 1 |
4 :
| 7 63 | | 7 65 | | 7 63 |
| 7 65 | | 7 63 | | 7 63 |
5 :
| 12 1641 | | 12 1637 | | 12 1637 |
| 12 2455 | | 12 2455 | | 12 2459 |
6 :
| 10 345 | | 12 1380 | | 12 1352 | | 9 169 |
| 10 679 | | 12 2712 | | 12 2740 | | 9 343 |

```

1.2 Tiles Abutting the Right-Angle Line

```

7 : rncxtfo
| 12 1669 | | 10 439 | | 11 867 | | 14 6559 | | 9 199 | | 14 6437 |
| 11 1027 | | 12 2225 | | 11 1181 | | 14 9825 | | 9 281 | | 14 8781 |
8 : mxgrordv
| 14 5711 | | 12 1427 | | 12 1426 | | 9 163 | | 11 504 | | 11 452 | | 11 566 | | 13 2734 |
| 14 10174 | | 12 2548 | | 12 2552 | | 9 349 | | 11 1544 | | 11 1544 | | 11 1410 | | 13 5095 |
9 : nmwplton
| 15 16211 | | 8 127 | | 7 59 | | 16 29829 | | 15 14441 | | 10 427 | | 15 13401 |
| 14 8225 | | 8 129 | | 7 69 | | 16 35395 | | 16 35441 | | 15 17757 | | 16 34775 |
10 : rnmwxtvno
| 15 11789 | | 14 6081 | | 8 95 | | 8 91 | | 14 5779 |
| 15 18421 | | 11 1207 | | 8 161 | | 8 165 | | 15 19379 |
11 : rnpdwtzhno
| 10 325 | | 10 323 | | 9 157 | | 12 1249 |
| 9 327 | | 10 701 | | 9 355 | | 7 83 |
12 : novdtrowxern
| 9 229 | | 13 3539 | | 14 6771 | | 14 6721 | | 12 1803 |
| 9 283 | | 13 4653 | | 13 4565 | | 13 4473 | | 14 8943 |
13 : hdtvphkmwsh
| 10 411 | | 11 839 | | 13 3276 | | 10 391 | | 10 385 |
| 11 1187 | | 11 1191 | | 13 4916 | | 10 633 | | 10 627 |
14 : rnovdtwexerno
| 11 725 | | 12 1467 | | 10 365 | | 15 11646 | | 10 363 | | 12 1421 | | 10 361 |
| 11 1200 | | 12 2487 | | 11 1305 | | 15 21040 | | 10 661 | | 12 2675 | | 10 605 |
15 : mxerowplroudv
| 11 737 | | 11 725 | | 8 85 | | 7 37 | | 10 289 | | 11 727 |
| 8 159 | | 11 1293 | | 8 171 | | 7 91 | | 9 359 | | 11 1279 |
16 : hdvowphltrmsh
| 8 123 | | 12 1781 | | 6 27 | | 14 7350 | | 7 61 |
| 8 133 | | 12 2315 | | 4 9 | | 14 8867 | | 8 133 |
17 : rnmxhltwupdvno
| 10 387 | | 10 393 | | 12 1545 | | 12 1531 | | 11 759 |
| 10 637 | | 10 631 | | 10 613 | | 12 2437 | | 12 2435 |
18 : mxhdvokplrowpkmxhdv
| 8 89 | | 12 1433 | | 12 1399 | | 10 341 | | 10 333 | | 10 323 | | 11 669 |
| 12 2625 | | 11 1317 | | 12 2683 | | 10 683 | | 10 691 | | 10 691 | | 11 1357 |
19 : hkovdtvcphlewxxerp
| 10 373 | | 10 389 | | 11 793 | | 11 791 | | 11 739 |
| 10 651 | | 10 635 | | 8 155 | | 11 1237 | | 9 325 |
20 : rnorlevdtwexvorno
| 12 1395 | | 12 1401 | | 10 351 | | 13 2799 |
| 12 2701 | | 12 2695 | | 13 5371 | | 13 5373 |
21 : norlewxxernnovdtvcorn
| 10 431 | | 11 877 | | 11 879 | | 10 429 |
| 10 593 | | 11 1171 | | 11 1153 | | 9 295 |
22 : hkmvdtvdkrpkordewxxevkp
| 11 723 | | 12 1481 | | 11 735 | | 11 723 |
| 12 2641 | | 12 2601 | | 11 1313 | | 11 1325 |
23 : nordsnovdtvcphhlewxernkxgrn
| 15 14151 | | 16 28305 | | 14 7065 | | 15 14009 | | 6 27 |
| 15 18617 | | 16 37157 | | 15 18481 | | 16 37283 | | 6 37 |
24 : hnorlewxtwxxernphnovdtwxtvcornp
| 13 2801 | | 13 2845 | | 11 711 | | 12 1397 |
| 13 5391 | | 13 5347 | | 13 5305 | | 12 2687 |

```

25 : *hnordewxtwævkornphnorkmvdwtxvdgrnp*
| 11 695 | | 14 5597 | | 14 5605 | | 12 1389 |
| 11 1353 | | 14 10787 | | 13 5367 | | 10 675 |

26 : *wrdtvmwvphltrnovhncatfpernowvphltvnmwzgt*
| 14 7073 | | 14 7079 | | 13 3533 | | 13 3529 |
| 14 9311 | | 14 9305 | | 14 9285 | | 14 9289 |

27 : *wxtvcornphnphkvdewxtwxtvderkphnphnorlewxt*
| 14 5531 | | 14 5562 | | 14 5562 | | 14 5535 |
| 14 10829 | | 14 10785 | | 14 10822 | | 14 10849 |

28 : *hnorkmvdewxtwævdgrkornphnorkordevtwxtvdevkornp*
| 12 1381 | | 9 173 | | 14 5543 | | 14 5533 | | 12 1381 |
| 12 2715 | | 9 339 | | 14 10823 | | 14 10835 | | 13 5423 |

29 : *wxtwærkphnphnphnorlevdtwxtwxtwævcornphnphnphkvdwtxt*
| 11 689 | | 11 691 | | 14 5525 | | 13 2753 |
| 11 1359 | | 11 1357 | | 14 10829 | | 13 5429 |

1.3 Interior Tiles

30 : *dsp13*
| 8 113 | | 11 1011 | | 13 4044 | | 13 3105 |
| 8 112 | | 11 1003 | | 13 4095 | | 13 4095 |

31 : *dtrp13*
| 8 98 | | 12 1631 | | 12 1433 | | 8 82 |
| 8 127 | | 12 2049 | | 12 2347 | | 8 143 |

32 : *rmævo*
| 8 73 | | 10 309 | | 13 2403 | | 13 2389 | | 15 9398 | | 10 250 | | 8 45 | | 8 67 |
| 8 152 | | 10 639 | | 13 5335 | | 13 5370 | | 15 21832 | | 10 772 | | 8 193 | | 8 158 |

33 : *dwwpn23*
| 8 85 | | 10 340 | | 9 162 | | 9 143 |
| 8 140 | | 10 642 | | 9 329 | | 9 307 |

34 : *cpltvn*
| 14 7247 | | 14 7387 | | 14 6757 | | 14 6635 | | 14 7155 |
| 14 7917 | | 14 8191 | | 14 8631 | | 14 8415 | | 14 7951 |

35 : *drpoxv*
| 15 7315 | | 13 1873 | | 15 6913 | | 8 46 | | 8 41 |
| 13 5381 | | 16 43691 | | 16 46777 | | 8 193 | | 8 193 |

36 : *cpdwrn*
| 11 793 | | 15 12780 | | 15 13099 | | 15 12967 | | 15 12749 | | 9 199 | | 11 788 |
| 11 1086 | | 15 17442 | | 15 17857 | | 15 18083 | | 15 18001 | | 9 281 | | 11 1096 |

37 : *dtrmp13*
| 15 12437 | | 15 13259 | | 15 13125 | | 15 12933 | | 16 25544 | | 15 12483 |
| 15 16615 | | 15 16991 | | 15 17607 | | 15 17535 | | 16 34878 | | 15 17257 |

38 : *rpdxzho*
| 10 182 | | 11 362 | | 9 81 | | 10 134 |
| 10 724 | | 11 1458 | | 9 386 | | 10 772 |

39 : *cpltxhn*
| 14 5763 | | 14 5953 | | 14 6009 | | 14 5985 | | 14 5869 | | 14 5711 |
| 14 9611 | | 14 9833 | | 14 10013 | | 14 10135 | | 14 10203 | | 14 9655 |

40 : *cpdwupn*
| 14 5509 | | 13 2867 | | 14 5780 | | 14 5577 | | 14 5495 | | 14 5211 |
| 14 8979 | | 13 4759 | | 14 10120 | | 14 10287 | | 14 10191 | | 14 9283 |

41 : *cperowx13*
| 16 28727 | | 16 28369 | | 16 28099 | | 16 27317 | | 16 27251 |
| 16 32775 | | 16 34265 | | 16 34535 | | 16 34877 | | 16 33991 |

42 : *dewwpk13*
| 15 13769 | | 15 13785 | | 15 12913 | | 15 12965 |
| 15 15961 | | 15 16381 | | 15 17019 | | 15 16675 |

43 : *dxtwpph23*
| 10 254 | | 11 484 | | 11 447 | | 8 63 |
| 10 646 | | 11 1401 | | 11 1371 | | 8 162 |

44 : *cphltvn*
| 15 14509 | | 15 14766 | | 15 14320 | | 16 28219 |
| 15 16416 | | 15 16629 | | 15 17140 | | 16 33663 |

45 : *drphoxtv*
| 15 9789 | | 15 10145 | | 15 9985 | | 15 9567 | | 15 9649 |
| 15 20419 | | 15 20875 | | 15 21839 | | 15 21839 | | 15 20733 |

46 : *cpernkwx13*
| 15 15393 | | 15 15731 | | 15 15355 | | 15 14869 | | 15 14859 | | 15 14929 |
| 15 16061 | | 15 16385 | | 15 16889 | | 15 16723 | | 15 16679 | | 15 16479 |

47 : *cpdwrdrp13*
| 15 11869 | | 15 12227 | | 12 1534 | | 12 1531 | | 12 1515 | | 15 11671 |
| 15 18793 | | 15 19047 | | 12 2424 | | 12 2482 | | 12 2490 | | 15 19493 |

48 : *dewwplrp13*
| 16 24872 | | 15 12187 | | 15 12007 | | 15 12163 |
| 16 37697 | | 15 19173 | | 15 18983 | | 15 18825 |

49 : *mæsphhkv*
| 13 3271 | | 13 3093 | | 13 3041 | | 14 6162 |
| 13 4101 | | 13 4549 | | 13 4441 | | 14 8266 |

50 : *vhowxtrpe*
| 12 1461 | | 12 1529 | | 17 47175 | | 12 1433 | | 10 358 | | 8 86 |
| 12 2207 | | 12 2301 | | 14 9335 | | 12 2349 | | 10 587 | | 8 143 |
51 : *cpernowwx13*
| 16 28965 | | 16 29169 | | 16 29233 | | 16 28973 | | 16 28561 | | 16 28323 |
| 16 33515 | | 16 33747 | | 16 34699 | | 16 34983 | | 16 35237 | | 16 34177 |
52 : *cphoxtrmx13*
| 15 11613 | | 15 11615 | | 15 11251 | | 15 10817 | | 15 10791 | | 15 11185 | | 15 11475 |
| 15 20665 | | 15 20675 | | 15 21283 | | 15 21327 | | 15 21201 | | 15 20667 | | 15 20453 |
53 : *cphlittvn*
| 16 29695 | | 16 30199 | | 16 29957 | | 16 29453 | | 16 29243 |
| 16 32959 | | 16 33265 | | 16 34165 | | 16 33879 | | 16 33567 |
54 : *cpetvdsorn*
| 15 14953 | | 15 15163 | | 15 14847 | | 15 14635 | | 15 14803 |
| 15 15915 | | 15 16383 | | 15 16705 | | 15 16603 | | 15 16067 |
55 : *cornncxgtv*
| 16 30283 | | 16 30585 | | 16 30261 | | 16 29903 |
| 16 32987 | | 16 33493 | | 16 33987 | | 16 33491 |
56 : *coroxhhdv*
| 16 25943 | | 16 25471 | | 16 25325 | | 16 25049 | | 16 25079 | | 16 25275 | | 16 26031 |
| 16 37835 | | 16 38239 | | 16 38323 | | 16 38213 | | 16 38137 | | 16 37871 | | 16 37195 |
57 : *cphkotxhdv*
| 15 12239 | | 15 12048 | | 15 11768 | | 17 47813 | | 15 12062 |
| 15 18848 | | 15 19087 | | 15 19022 | | 17 75219 | | 15 18724 |
58 : *cphhdtrwx13*
| 15 14321 | | 15 14465 | | 15 14207 | | 15 13965 | | 15 13629 | | 15 13511 | | 15 13945 |
| 15 17567 | | 15 17779 | | 15 18133 | | 15 18097 | | 15 18023 | | 15 17677 | | 15 17585 |
59 : *drphkpdwxv23*
| 15 9625 | | 15 9709 | | 15 9659 | | 15 9623 | | 15 9517 |
| 15 21635 | | 15 21799 | | 15 22059 | | 15 22213 | | 15 22133 |
60 : *cphnkxtrmx13*
| 15 12729 | | 15 12779 | | 15 12749 | | 12 1552 | | 12 1535 |
| 15 19281 | | 15 19361 | | 15 19523 | | 12 2473 | | 12 2445 |
61 : *cpdurdtrnp13*
| 16 25069 | | 16 25351 | | 16 25031 | | 16 24971 |
| 16 36943 | | 16 37423 | | 16 37643 | | 16 36945 |
62 : *cxvnmwvwpk13*
| 14 6270 | | 15 12535 | | 16 24789 | | 16 24683 | | 17 49436 | | 16 24737 | | 14 6216 |
| 14 9203 | | 15 18557 | | 16 37337 | | 16 37289 | | 17 74244 | | 16 37069 | | 14 9203 |
63 : *cphdtwrhox13*
| 17 49297 | | 16 24871 | | 15 12399 | | 15 12269 | | 17 48641 | | 17 48577 |
| 17 76429 | | 11 1203 | | 15 19281 | | 15 19394 | | 17 77465 | | 17 77029 |
64 : *cpltwrdvnp13*
| 12 1508 | | 13 3078 | | 15 12361 | | 13 3126 | | 14 6248 | | 13 3097 | | 13 3017 | | 12 1483 |
| 12 2281 | | 13 4623 | | 15 18563 | | 13 4693 | | 14 9400 | | 13 4733 | | 13 4664 | | 12 2295 |
65 : *dtrowwxhxxx*
| 16 32425 | | 16 32435 | | 15 15095 | | 16 29617 |
| 16 32875 | | 13 4115 | | 16 33939 | | 16 33747 |
66 : *owxvnpnmxtr*
| 13 2421 | | 8 81 | | 11 643 | | 12 1173 |
| 12 2539 | | 13 5191 | | 11 1333 | | 13 5161 |
67 : *mxtrphhowxv*
| 15 10917 | | 14 5461 | | 16 21837 | | 10 341 | | 13 2691 |
| 14 10105 | | 14 10200 | | 15 20521 | | 15 20529 | | 15 20437 |
68 : *cpernnowwx13*
| 15 14822 | | 16 29825 | | 16 29281 | | 15 14606 | | 15 14709 |
| 15 16781 | | 16 33673 | | 16 34397 | | 15 17056 | | 15 16917 |
69 : *cphnowxtrmx13*
| 12 1511 | | 15 12227 | | 12 1527 | | 11 761 | | 15 11885 |
| 12 2499 | | 15 20095 | | 19 317 | | 11 1269 | | 15 20075 |
70 : *cornovdvwvx13*
| 15 12765 | | 15 13175 | | 15 13167 | | 15 12845 | | 15 12581 | | 15 12463 | | 15 12511 |
| 15 19137 | | 15 18865 | | 15 19009 | | 15 19543 | | 15 19809 | | 15 19757 | | 15 19475 |
71 : *coroxhhlewx13*
| 16 25398 | | 16 25335 | | 14 6218 | | 16 24726 | | 16 24749 |
| 16 38194 | | 16 38740 | | 14 9727 | | 16 38915 | | 16 38665 |
72 : *rnmxgtwrldvno*
| 14 6047 | | 14 6351 | | 14 6417 | | 14 6401 | | 16 24736 | | 14 6177 | | 14 6159 | | 14 6011 |
| 14 8599 | | 14 8803 | | 14 9157 | | 14 9303 | | 16 37036 | | 14 9251 | | 14 9225 | | 14 8757 |
73 : *cplttvdunorn*
| 17 52825 | | 17 52935 | | 17 51805 | | 17 51803 | | 17 51545 | | 17 51409 | | 17 51997 |
| 17 64673 | | 17 64789 | | 17 67297 | | 17 67299 | | 17 67329 | | 17 66325 | | 17 65133 |
74 : *cphhndttwrn*
| 16 26265 | | 13 3326 | | 16 26227 | | 16 26155 | | 16 25975 |
| 16 32591 | | 13 4117 | | 16 33251 | | 16 33129 | | 16 32741 |
75 : *mxgtrnnowrdv*
| 15 14781 | | 15 14135 | | 15 14131 | | 15 14503 |
| 15 16387 | | 15 17263 | | 15 17123 | | 15 16391 |

76 : *m̄sperovhk̄xv*
| 14 6099 | | 15 12327 | | 15 12313 | | 14 6122 | | 15 11991 | | 14 6008 |
| 14 8551 | | 15 17879 | | 15 18351 | | 14 9179 | | 15 17973 | | 14 8706 |
77 : *wpllv̄d̄x̄ewppl*
| 16 13863 | | 13 1635 | | 10 166 | | 10 157 | | 12 731 | | 9 96 |
| 14 11003 | | 15 22937 | | 10 772 | | 10 772 | | 12 2902 | | 9 356 |
78 : *cplrphōx̄ew̄xv*
| 15 9607 | | 15 9687 | | 13 2397 | | 15 9563 | | 15 9333 | | 15 9349 |
| 15 20881 | | 15 20941 | | 13 5353 | | 15 21489 | | 15 21749 | | 15 21499 |
79 : *vdrpgt̄wrhōze*
| 16 24685 | | 16 24517 | | 16 23701 | | 16 23875 | | 16 24425 |
| 16 36577 | | 16 36989 | | 16 37263 | | 16 37067 | | 16 36565 |
80 : *dewp̄d̄wrk̄phn*
| 16 24731 | | 15 12344 | | 15 12279 | | 16 24167 | | 16 24151 |
| 16 36623 | | 15 18471 | | 15 18478 | | 16 36997 | | 16 36731 |
81 : *cphlewp̄nk̄x̄tv*
| 16 25129 | | 16 25043 | | 16 24743 | | 16 24197 | | 16 24199 | | 16 24285 | | 16 24681 |
| 16 39627 | | 16 39691 | | 16 39777 | | 16 39365 | | 16 39327 | | 16 39155 | | 16 38899 |
82 : *cphncpl̄t̄wr̄dv*
| 16 23887 | | 16 23885 | | 16 23711 | | 16 23429 | | 16 23447 | | 16 23807 |
| 16 37417 | | 16 37659 | | 16 37705 | | 16 37311 | | 16 37087 | | 16 37239 |
83 : *cp̄d̄wr̄d̄t̄vk̄phn*
| 15 12479 | | 15 12567 | | 15 12635 | | 15 12773 | | 15 12653 | | 15 12461 | | 15 12463 |
| 15 18891 | | 15 18901 | | 15 19045 | | 15 19495 | | 15 19505 | | 15 19223 | | 15 18929 |
84 : *dewp̄ōx̄r̄pl̄r̄m̄x̄13*
| 14 4553 | | 13 2291 | | 13 2263 | | 14 4487 | | 11 565 | | 13 2269 |
| 14 11219 | | 11 1403 | | 13 5649 | | 13 5671 | | 13 5629 | | 12 2809 |
85 : *dēx̄hd̄wr̄k̄pl̄r̄p̄13*
| 15 12281 | | 15 11995 | | 15 12203 |
| 15 18427 | | 15 18443 | | 15 18169 |
86 : *cp̄d̄wr̄d̄t̄wr̄h̄n̄p̄13*
| 16 24569 | | 15 12426 | | 16 24989 | | 16 25015 | | 16 24989 | | 16 24881 | | 16 24651 |
| 16 38719 | | 15 19469 | | 16 39287 | | 16 39385 | | 16 39453 | | 16 39387 | | 16 39109 |
87 : *nm̄w̄w̄w̄pl̄t̄v̄nn*
| 15 16211 | | 16 32427 | | 12 1939 | | 15 14975 | | 16 29803 |
| 16 32773 | | 14 8219 | | 16 33333 | | 14 8245 | | 16 32789 |
88 : *np̄ew̄w̄w̄pl̄t̄v̄hn*
| 13 3345 | | 13 3251 | | 13 3225 | | 13 3047 | | 13 3105 | | 13 3323 |
| 13 4279 | | 13 4271 | | 13 4263 | | 13 4183 | | 13 4149 | | 13 4229 |
89 : *np̄et̄w̄w̄pl̄t̄v̄hn*
| 14 6297 | | 14 6384 | | 14 6370 | | 14 6301 |
| 14 9416 | | 14 9457 | | 14 9495 | | 14 9450 |
90 : *cph̄dv̄k̄x̄ew̄wp̄k̄p̄13*
| 17 53105 | | 17 53277 | | 17 52903 | | 17 52409 | | 17 52645 |
| 17 66425 | | 17 66589 | | 17 67367 | | 17 67417 | | 17 66695 |
91 : *cph̄dv̄d̄sm̄w̄wp̄k̄p̄13*
| 17 53591 | | 17 53699 | | 17 52825 | | 17 52495 |
| 17 64647 | | 17 64933 | | 17 66025 | | 17 65393 |
92 : *dt̄tw̄wp̄k̄ph̄h̄n̄m̄x̄13*
| 15 12157 | | 15 12245 | | 15 12129 | | 15 12067 | | 15 11967 |
| 15 17869 | | 15 17979 | | 15 18199 | | 15 18283 | | 15 17963 |
93 : *cpl̄t̄w̄x̄ew̄wp̄h̄n̄p̄13*
| 15 11339 | | 15 11589 | | 15 11683 | | 15 11681 | | 15 11569 | | 15 11267 |
| 15 18959 | | 15 19423 | | 15 19931 | | 15 20077 | | 15 19909 | | 15 19049 |
94 : *cx̄tt̄v̄d̄sn̄ph̄k̄p̄13*
| 13 3201 | | 14 6432 | | 15 12769 | | 15 12776 | | 15 12780 |
| 13 4352 | | 14 8743 | | 15 17470 | | 15 17452 | | 15 17443 |
95 : *cph̄nm̄x̄gt̄w̄x̄tr̄p̄13*
| 14 5672 | | 14 5723 | | 14 5742 | | 14 5784 | | 14 5790 | | 14 5805 | | 14 5753 | | 14 5666 |
| 14 9386 | | 14 9414 | | 14 9427 | | 14 9528 | | 14 9558 | | 14 9662 | | 14 9622 | | 14 9437 |
96 : *npl̄vd̄tr̄ow̄x̄ew̄pn*
| 16 23243 | | 16 23693 | | 16 23709 | | 16 22457 |
| 16 36983 | | 16 38339 | | 16 38687 | | 16 36795 |
97 : *m̄x̄sm̄wp̄nn̄pl̄vk̄x̄v*
| 10 356 | | 14 5779 | | 14 5733 | | 16 22893 | | 14 5623 |
| 10 597 | | 14 10120 | | 14 10237 | | 16 40843 | | 14 9811 |
98 : *dr̄p̄l̄w̄x̄r̄ph̄ph̄d̄w̄x̄13*
| 17 37849 | | 17 37827 | | 17 37443 | | 17 37425 | | 17 37507 | | 17 37889 |
| 17 87293 | | 17 87289 | | 17 87165 | | 17 87099 | | 17 86877 | | 17 87067 |
99 : *dew̄x̄tr̄ork̄ph̄n̄m̄x̄13*
| 15 11741 | | 15 11803 | | 15 11609 | | 15 11546 | | 15 11580 | | 15 11627 |
| 15 18877 | | 15 19043 | | 15 19269 | | 15 19178 | | 15 19120 | | 15 19044 |
100 : *cpl̄t̄vd̄m̄x̄sorn̄p̄13*
| 15 11841 | | 15 11789 | | 15 11719 | | 15 11669 | | 15 11759 |
| 15 18571 | | 15 18811 | | 15 18903 | | 15 18745 | | 15 18573 |
101 : *cph̄lewp̄nk̄x̄tr̄m̄x̄13*
| 16 24461 | | 16 24583 | | 16 24593 | | 16 24395 | | 16 24143 | | 16 24419 |
| 16 38053 | | 16 38187 | | 16 38329 | | 16 38457 | | 16 38315 | | 16 38053 |

102 : *hdvsornorkzexh*
| 16 26845 | | 16 26851 | | 16 26185 | | 16 25479 | | 16 25803 |
| 16 32073 | | 16 32177 | | 16 33149 | | 16 33819 | | 16 33165 |
103 : *vdvowpozrplrmxe*
| 14 4773 | | 14 4801 | | 14 4697 | | 14 4635 |
| 14 10849 | | 13 5427 | | 13 5495 | | 6 43 |
104 : *dewpnmwpkormxtv*
| 16 21907 | | 16 21913 | | 16 21885 | | 16 21593 | | 16 21835 |
| 16 40133 | | 16 40489 | | 16 40531 | | 16 40777 | | 16 40187 |
105 : *cpdwwpkmwpnovdv*
| 16 22055 | | 16 21959 | | 15 10923 | | 16 21833 | | 16 21966 |
| 16 40421 | | 16 40601 | | 15 20289 | | 16 40572 | | 16 40322 |
106 : *nordewwpltdgrn*
| 13 3482 | | 14 7041 | | 13 3504 | | 13 3474 |
| 13 4606 | | 14 9278 | | 13 4656 | | 13 4665 |
107 : *dttrouwzxhhhhh*
| 16 32421 | | 16 32419 | | 16 30763 | | 16 31033 |
| 15 16395 | | 13 4095 | | 15 16363 | | 14 8221 |
108 : *dvmxtwpoxtwprpn23*
| 16 18573 | | 16 18979 | | 16 18893 | | 16 18343 | | 16 18335 | | 16 18565 |
| 16 44031 | | 16 44471 | | 16 44639 | | 16 44437 | | 16 44309 | | 16 44033 |
109 : *dewpmxwwplrphox13*
| 16 18717 | | 16 18453 | | 16 18313 | | 16 18201 | | 16 18263 | | 16 18529 |
| 16 44473 | | 16 44831 | | 16 44851 | | 16 44759 | | 16 44421 | | 16 44405 |
110 : *drphkphkpdwzwx13*
| 16 21843 | | 16 21841 | | 16 21665 | | 13 2683 | | 16 21557 |
| 15 20115 | | 15 20021 | | 15 20029 | | 14 10183 | | 16 40785 |
111 : *cpltwxsmahhnp13*
| 16 25206 | | 16 25327 | | 16 25507 | | 16 25515 | | 16 25367 | | 16 25101 |
| 16 37398 | | 16 37519 | | 16 37707 | | 16 37723 | | 16 37953 | | 16 37505 |
112 : *ngtvdtrouwzwrhn*
| 14 6462 | | 14 6523 | | 14 6545 | | 14 6547 | | 14 6515 | | 14 6362 | | 14 6175 |
| 14 9183 | | 14 9256 | | 14 9343 | | 14 9501 | | 14 9511 | | 14 9380 | | 14 8943 |
113 : *nmwvxgrnnordttvn*
| 15 14569 | | 15 14613 | | 15 14177 | | 15 14043 |
| 15 17543 | | 15 17815 | | 15 18507 | | 15 18309 |
114 : *nowhdtrowzhetrn*
| 15 14415 | | 15 14861 | | 13 3700 | | 15 14403 | | 15 14369 |
| 15 17483 | | 15 17529 | | 13 4431 | | 15 17759 | | 15 17731 |
115 : *cpgrtnnmwzhhlttv*
| 16 29277 | | 16 29421 | | 12 1838 | | 16 29377 | | 16 29279 | | 16 28973 | | 16 28969 | | 16 29185 |
| 16 35201 | | 16 35279 | | 12 2217 | | 16 35733 | | 16 35841 | | 16 35889 | | 16 35851 | | 16 35335 |
116 : *cxtrowzvehnnorn*
| 16 25623 | | 16 25775 | | 16 26085 | | 16 25749 | | 16 25633 | | 16 25581 | | 13 3199 |
| 16 34871 | | 16 34871 | | 16 35189 | | 16 35134 | | 16 35111 | | 16 34929 | | 13 4363 |
117 : *hlewxsnphnkxvcp*
| 15 12607 | | 15 12239 | | 15 12137 | | 15 12383 |
| 15 19915 | | 15 20311 | | 15 20007 | | 15 19603 |
118 : *hdtwvhkphkpetwzh*
| 15 12555 | | 15 12527 | | 13 3129 | | 16 24982 | | 17 49819 | | 16 24701 | | 16 25098 |
| 15 18513 | | 15 18621 | | 17 74615 | | 16 37412 | | 15 18775 | | 16 37492 | | 16 36290 |
119 : *rncpgttvdewwrhlfo*
| 15 14781 | | 15 14705 | | 15 14587 | | 15 14507 | | 15 14545 |
| 15 16413 | | 15 16969 | | 15 17267 | | 15 16653 | | 15 16499 |
120 : *cpdwxrplwxrphphdv*
| 17 37761 | | 17 37935 | | 17 38063 | | 17 37773 | | 17 37691 | | 17 37631 |
| 17 87895 | | 17 87971 | | 17 88087 | | 17 88589 | | 17 88563 | | 17 88055 |
121 : *rnormxtvdewxvorno*
| 12 1371 | | 15 11023 | | 16 21963 | | 14 5479 | | 14 5464 | | 16 21853 |
| 16 40507 | | 15 20305 | | 14 10219 | | 14 10218 | | 14 10207 | | 16 40743 |
122 : *rkxvmxhkhphdvmxso*
| 16 24771 | | 16 24791 | | 16 24379 | | 16 23953 | | 16 23935 | | 16 24383 |
| 16 38047 | | 16 38079 | | 16 38353 | | 16 38139 | | 16 38083 | | 16 37961 |
123 : *cphncplrowzewwpdv*
| 15 12441 | | 15 12456 | | 15 12460 | | 15 12366 | | 15 12370 | | 15 12392 |
| 15 19455 | | 15 19479 | | 15 19502 | | 15 19568 | | 15 19465 | | 15 19403 |
124 : *vdvonorowztrormzxe*
| 12 1489 | | 12 1484 | | 14 5751 | | 12 1434 | | 12 1402 | | 13 2833 | | 12 1433 |
| 12 2289 | | 12 2302 | | 14 9405 | | 12 2353 | | 12 2357 | | 13 4677 | | 12 2320 |
125 : *mxsmwvncplfplukxv*
| 14 5714 | | 15 11445 | | 16 22896 | | 14 5725 | | 11 715 | | 14 5709 | | 13 2851 |
| 14 10170 | | 15 20372 | | 16 40839 | | 12 2559 | | 13 5119 | | 14 10201 | | 13 5087 |
126 : *dvmxtwvwwplrphnpr23*
| 16 18919 | | 16 19271 | | 16 18759 |
| 16 43745 | | 16 44327 | | 16 43901 |
127 : *cphdtwupkotzhhnmz13*
| 17 47949 | | 17 47943 | | 17 47517 | | 17 47367 | | 17 47431 | | 17 47711 |
| 17 74327 | | 17 74411 | | 17 74585 | | 17 74525 | | 17 74423 | | 17 74305 |

128 : *dewpnplrowpoxtzhdv*
| 17 38211 | 17 38299 | 17 38189 | 17 37701 | 17 37725 | 17 38139 |
| 17 86061 | 17 86165 | 17 86395 | 17 86911 | 17 86603 | 17 86091 |
129 : *mxsotxhhnphdwrkxv*
| 15 11941 | 14 6139 | 14 5937 |
| 15 17930 | 14 9211 | 14 9067 |
130 : *vdrnphtwphnowxe*
| 14 6131 | 14 6167 | 14 6075 | 11 747 |
| 14 10057 | 14 10065 | 14 10299 | 10 645 |
131 : *cphncpltwxtvnmwvnp*
| 16 23955 | 16 24095 | 14 6039 | 16 24201 | 16 24083 | 16 23969 | 16 23923 | 16 23893 |
| 16 37099 | 16 37199 | 14 9326 | 16 37511 | 16 37825 | 16 37707 | 16 37529 | 16 37173 |
132 : *nphdvtrowsmxhhn*
| 14 6039 | 14 6223 | 14 6333 | 14 6222 | 14 6185 | 14 5946 |
| 14 9326 | 14 9412 | 14 9508 | 14 9536 | 14 9527 | 14 9335 |
133 : *cphkpetwpltdewpn*
| 16 24990 | 16 25061 | 16 25062 | 16 24980 | 16 24962 | 15 12479 |
| 16 37444 | 16 37444 | 16 37494 | 16 37507 | 16 37500 | 15 18745 |
134 : *nmxwewrkphkottvtdvn*
| 14 6881 | 17 53965 | 17 53199 | 14 6828 |
| 14 8198 | 17 66997 | 17 67299 | 14 8195 |
135 : *rnpxmzhdwxtzhdvknpo*
| 10 295 | 15 9461 | 14 4767 | 13 2399 | 14 4865 | 13 2407 | 15 9551 |
| 12 2779 | 15 21883 | 15 21587 | 14 10673 | 11 1339 | 13 5503 | 15 22445 |
136 : *dvmxvplwvplwvvrphph*
| 16 18638 | 16 18707 | 16 18610 | 16 18565 |
| 16 43911 | 16 44131 | 16 44148 | 16 44036 |
137 : *cphphnplrowxwxtzhdv*
| 16 18748 | 16 18795 | 16 18707 | 16 18700 | 16 18725 |
| 16 43790 | 16 43911 | 16 43828 | 16 43819 | 16 43799 |
138 : *cpltwvndexhdwrkphn*
| 16 24093 | 16 23905 | 16 23623 | 16 23625 | 16 23711 | 16 24055 |
| 16 37051 | 16 37375 | 16 37631 | 16 37603 | 16 37339 | 16 37001 |
139 : *cphkotxhltvdrnpdv*
| 17 47989 | 17 47667 | 17 47555 | 17 47541 | 17 47561 | 17 47871 |
| 17 75179 | 17 75255 | 17 75225 | 17 75209 | 17 75051 | 17 74981 |
140 : *cplrhovpdvdepoxtz13*
| 16 18201 | 16 18411 | 16 18407 | 16 18335 | 16 18213 | 16 18163 | 16 18143 |
| 16 44723 | 16 44707 | 16 44815 | 16 44923 | 16 45013 | 16 44955 | 16 44835 |
141 : *cpdwrdvtvrowvphnnp13*
| 17 48497 | 17 48591 | 17 48655 | 17 48623 | 17 48597 | 17 48445 | 17 48471 |
| 17 72263 | 17 72333 | 17 72927 | 17 72993 | 17 72987 | 17 72627 | 17 72331 |
142 : *cpltdvtrkphnkxexhhn*
| 16 24302 | 16 24249 | 16 24198 | 16 24291 |
| 16 36430 | 16 36438 | 16 36418 | 16 36328 |
143 : *rnorkxvmxevdvmxsorno*
| 15 12049 | 14 6045 | 14 5991 | 13 2989 | 15 11949 | 15 11927 | 14 5945 | 13 2979 |
| 15 18489 | 15 18501 | 15 18755 | 15 18801 | 15 18813 | 15 18849 | 15 18825 | 15 18741 |
144 : *hkmwvdpvcphlexhltvkv*
| 16 26631 | 16 26723 | 16 25999 | 16 25359 | 16 24785 | 16 24815 | 16 25695 |
| 16 37191 | 16 37281 | 16 38229 | 16 38745 | 16 38793 | 16 38723 | 16 37863 |
145 : *rkplvnmwxevdvnmwvko*
| 14 6385 | 16 25099 | 16 25177 | 9 197 |
| 14 9395 | 16 38089 | 16 37841 | 16 37787 |
146 : *rnmwvpmwxevdtvkvlvno*
| 15 12389 | 15 12351 | 15 12199 | 15 12133 | 15 12115 | 15 12131 | 15 12139 |
| 15 18923 | 15 19411 | 15 19965 | 15 20113 | 15 19957 | 15 19655 | 15 19619 |
147 : *cpdxhnplrorvdrplwzvmx13*
| 16 19221 | 16 19207 | 16 19069 | 16 18645 | 16 19101 |
| 16 43315 | 16 43441 | 16 43577 | 16 43839 | 16 43305 |
148 : *cpdvdevtdvdrorkornp13*
| 15 12444 | 15 12417 | 14 6184 | 15 12340 |
| 15 19243 | 15 19275 | 14 9661 | 15 19305 |
149 : *mxernpgtwvpltrvhnovdv*
| 15 12661 | 15 12583 | 15 12319 | 15 12271 | 15 12235 | 15 12189 |
| 15 19025 | 15 19107 | 15 19251 | 15 19275 | 15 19279 | 15 19265 |
150 : *hdtvdrpernovhoxtwzh*
| 16 24995 | 16 25209 | 16 25205 | 16 25037 | 16 24973 |
| 16 36877 | 16 37529 | 16 38221 | 16 37647 | 16 36941 |
151 : *cphnmxsornphltvtdv*
| 15 11610 | 16 23203 | 14 5797 | 14 5796 | 16 23130 | 16 23143 |
| 15 18962 | 16 38008 | 14 9515 | 14 9516 | 16 38111 | 16 37927 |
152 : *hdtwxgrovhnpvordwzh*
| 16 22932 | 16 22960 | 17 45937 | 14 5743 | 15 11463 | 16 22915 |
| 16 38330 | 16 38324 | 17 76786 | 16 38509 | 16 38477 | 15 19199 |
153 : *cphkornmwvpmwxevdtrmx13*
| 15 12493 | 15 12507 | 15 12299 | 15 12235 | 15 12337 | 15 12431 |
| 15 19375 | 15 19381 | 15 19929 | 15 19953 | 15 19621 | 15 19462 |

154 : *cphtztroupkmwzvpdvx13*
| 17 45853 | 16 22847 | 15 11401 | 17 45549 | 17 44773 |
| 17 81473 | 16 40953 | 16 41071 | 17 82249 | 17 82657 |
155 : *cphmxtwupdwupncplrphdv*
| 16 21858 | 16 21948 | 16 21947 | 16 21925 | 16 21904 | 16 21817 |
| 16 40723 | 16 40725 | 16 40798 | 16 40892 | 16 40904 | 16 40851 |
156 : *cpltwzewwzwpnornmwpn*
| 15 11485 | 15 11514 | 14 5756 | 14 5741 | 15 11483 |
| 13 4793 | 15 19177 | 14 9653 | 14 9634 | 15 19234 |
157 : *cpdwrdtwdvzxernorkphn*
| 16 24547 | 16 24593 | 16 24697 | 16 24697 | 16 24675 | 16 24625 | 16 24585 | 16 24545 |
| 16 38023 | 16 37973 | 16 38065 | 16 38075 | 16 38393 | 16 38537 | 16 38491 | 16 38075 |
158 : *rmnphdvkxttwzsmzhhno*
| 13 3159 | 15 12674 | 13 3197 | 13 3185 | 14 6351 | 14 6333 | 13 3143 |
| 13 4635 | 15 18583 | 13 4701 | 13 4712 | 14 9413 | 14 9384 | 13 4639 |
159 : *mzermxsnplrowpnkzvovdv*
| 15 11588 | 15 11535 | 15 11455 | 15 11375 | 15 11431 |
| 15 20249 | 15 20396 | 15 20500 | 15 20523 | 15 20447 |
160 : *vhndewwpkotwrkpltdfpe*
| 16 27671 | 16 26643 | 16 26479 | 16 27463 |
| 16 33049 | 16 33405 | 16 33401 | 16 32947 |
161 : *cplrphmzvornpkmahdwtz13*
| 16 18627 | 16 18743 | 16 18737 | 16 18683 | 16 18603 | 16 18601 |
| 16 43857 | 16 43909 | 16 44859 | 16 44789 | 16 44179 | 16 44139 |
162 : *drphozewvmxtwzrphowpn23*
| 17 38291 | 17 38285 | 17 38231 | 17 38101 | 17 38069 | 17 38087 |
| 17 86047 | 17 86085 | 17 86251 | 17 86193 | 17 86153 | 17 85703 |
163 : *drplzvmxhhphnplrowz13*
| 16 18843 | 16 18813 | 16 18798 | 16 18788 | 16 18813 |
| 16 43622 | 16 43679 | 16 43690 | 16 43619 | 16 43600 |
164 : *cphdtwrhnorkphdvzgtwz13*
| 14 6193 | 15 12371 | 16 24667 | 16 24713 | 16 24723 | 15 12369 |
| 14 9641 | 16 38761 | 16 38767 | 16 38637 | 16 38615 | 16 38585 |
165 : *rkplvnovdtvdezernmwpko*
| 16 25197 | 16 24931 | 16 24793 | 16 24621 | 16 25055 |
| 16 37807 | 15 19111 | 16 38421 | 16 38539 | 16 37893 |
166 : *cphdrorkornovdvovzxdvtv*
| 17 50009 | 16 25049 | 16 24991 | 16 24907 | 17 49861 | 17 49905 | 17 49923 |
| 17 76811 | 16 38423 | 16 38505 | 16 38611 | 17 77059 | 17 76975 | 17 76945 |
167 : *mzhdvplrowplrowz13*
| 13 2763 | 15 11377 | 15 11329 | 12 1349 |
| 12 2709 | 15 21257 | 10 663 | 13 5443 |
168 : *cpdwupkmwupnovdvkzvmzgrp13*
| 14 5465 | 13 2740 | 14 5464 | 15 10912 | 14 5459 |
| 14 10141 | 13 5073 | 14 10196 | 15 20395 | 14 10176 |
169 : *wzvcpmwupnpxhnpvkplext*
| 16 18729 | 16 18773 | 16 18923 | 16 18891 | 16 18883 | 16 18759 | 16 18733 |
| 16 43937 | 16 43963 | 16 44271 | 16 44691 | 16 44685 | 16 44485 | 16 44355 |
170 : *mxtvdrphozgrordrphozewv*
| 15 9593 | 14 4829 | 15 9412 | 14 4704 | 16 18963 |
| 15 21378 | 14 10720 | 15 21964 | 14 10939 | 16 43356 |
171 : *hdtwrdrpevkphkmvhozgtwz13*
| 16 25067 | 16 25171 | 16 25197 | 16 25197 | 16 25173 | 16 25065 | 16 25019 | 16 25011 |
| 16 37255 | 16 37587 | 16 38229 | 16 38285 | 16 38307 | 16 38049 | 16 37815 | 16 37375 |
172 : *vdtkplvnpgtwrhnmwupkmwz13*
| 16 24906 | 16 24830 | 16 24725 | 16 24900 |
| 16 38069 | 16 38390 | 16 38316 | 16 37992 |
173 : *hnmwztxzgrnphnordtwz13*
| 14 5686 | 12 1415 | 12 1433 | 12 1439 |
| 14 10670 | 7 83 | 11 1313 | 10 659 |
174 : *nphncpdwzxtrowztxhlfphn*
| 15 11427 | 17 46115 | 15 11674 | 16 23415 | 15 11602 | 16 22893 |
| 15 18805 | 17 75427 | 15 19002 | 15 19117 | 15 19005 | 16 37662 |
175 : *cpltdvnpvldtrowztrouhnp13*
| 14 5781 | 16 23177 | 16 23171 | 16 23150 |
| 14 9549 | 16 38200 | 16 38242 | 16 38242 |
176 : *nornnmwzewwpltdvtnnorn*
| 16 26217 | 16 26535 | 16 26611 | 16 26501 | 16 26283 |
| 16 33423 | 16 33761 | 16 33989 | 16 34177 | 16 33879 |
177 : *mzsmzhnplwpltwpnphdvkzv*
| 16 21847 | 16 21859 | 14 5475 | 16 21850 |
| 16 40573 | 16 40577 | 14 10156 | 16 40633 |
178 : *cpdwrdtvdewzernmwpkorkphn*
| 16 24993 | 16 24967 | 13 3107 | 17 49689 | 16 24761 | 16 24795 | 16 24861 | 16 24951 |
| 16 38109 | 16 38195 | 16 38457 | 17 76963 | 16 38497 | 16 38403 | 16 38279 | 16 38117 |
179 : *cphkphhnmzgtwzxtrowzvdvdrp13*
| 14 6226 | 14 6246 | 15 12490 | 15 12449 |
| 14 9340 | 14 9363 | 15 18751 | 15 18716 |

180 : *mzgtwxgrozhnnpdrordturdv*
| 16 24749 | 16 24801 | 16 24863 | 16 24865 | 16 24853 | 16 24659 | 16 24627 |
| 16 38715 | 16 38875 | 16 39171 | 16 39263 | 16 39287 | 16 38817 | 16 38537 |
181 : *nphhncxtvkxtrowxsmwztfphn*
| 14 6239 | 15 12504 | 14 6269 | 14 6262 | 15 12502 | 15 12491 | 13 3117 |
| 14 9334 | 15 18680 | 14 9349 | 14 9362 | 15 18715 | 15 18705 | 14 9341 |
182 : *cpdwrdtkplrpevdwrkphdvnpl3*
| 16 24692 | 16 24719 | 16 24742 | 16 24829 | 16 24705 | 16 24685 |
| 16 37009 | 16 37010 | 16 37013 | 16 37049 | 16 37079 | 16 37019 |
183 : *vdrrphoxgrovdxzterordrphoze*
| 17 37455 | 17 37563 | 17 37919 | 17 37873 | 17 37837 | 17 37595 | 17 37457 |
| 17 87387 | 17 87389 | 17 87757 | 17 88331 | 17 88325 | 17 88101 | 17 87859 |
184 : *cphphkphowpnplwztxhdwztxhdv*
| 16 18983 | 16 18990 | 16 18967 | 16 18949 | 16 18945 | 16 18938 |
| 16 43316 | 16 43329 | 16 43357 | 16 43355 | 16 43349 | 16 43324 |
185 : *cpdwrkphdrorncxtvkxtvnmxhnn*
| 16 24656 | 16 24725 | 16 24719 | 16 24703 | 15 12336 | 16 24662 | 16 24618 | 13 3080 |
| 16 36934 | 16 36997 | 16 37010 | 16 37038 | 15 18532 | 16 37071 | 16 36984 | 13 4619 |
186 : *nphncpdwzwtvkpkmwztxhlfphn*
| 16 23193 | 16 23221 | 16 23075 | 16 22839 | 16 22963 |
| 16 37773 | 16 37867 | 16 37781 | 16 37587 | 16 37585 |
187 : *maermxtrovhowplrperowxvovdu*
| 15 11442 | 15 11454 | 15 11438 | 15 11428 | 15 11405 |
| 15 20323 | 15 20351 | 15 20380 | 15 20384 | 15 20370 |
188 : *mzsmwxtrovhnphnperowztkxv*
| 16 23063 | 16 23203 | 15 11613 | 15 11659 | 15 11621 | 16 23161 | 16 23008 | 14 5748 |
| 16 37725 | 16 38068 | 15 19063 | 16 38395 | 15 19197 | 16 38233 | 16 37819 | 14 9443 |
189 : *rkphncpdurdtdvewzgtxhlfphko*
| 16 25017 | 15 12479 | 17 49711 | 17 49625 | 16 24821 | 16 24830 | 17 49701 | 16 24939 |
| 16 38125 | 17 76945 | 17 77587 | 17 77519 | 16 38611 | 16 38552 | 17 76959 | 16 38189 |
190 : *wxwvnormxvphmxvphmxvornpltxt*
| 16 18761 | 16 18968 | 16 18992 | 16 19016 | 16 18942 | 16 18783 |
| 16 43265 | 16 43357 | 16 43377 | 16 43438 | 16 43416 | 16 43322 |
191 : *mzernovhozgtwupltwdrpernovdu*
| 15 12490 | 16 25007 | 16 24993 | 16 24965 | 15 12480 |
| 15 18704 | 16 37422 | 16 37432 | 16 37447 | 15 18709 |
192 : *vdtkplvnperowxtrovhnmpkmuwxe*
| 15 12433 | 16 24861 | 16 24733 | 16 24583 | 16 24739 |
| 15 19008 | 16 38193 | 16 38521 | 16 38565 | 16 38013 |
193 : *matwvumxgrphkphkphordvumxtwzv*
| 15 9473 | 16 18945 | 13 2367 | 15 9419 | 15 9425 | 15 9445 |
| 15 21673 | 16 43416 | 14 10879 | 14 10929 | 13 5449 | 14 10837 |
194 : *cphdvmaernovhnordtrowpkmwzgtwx13*
| 17 50729 | 17 50733 | 17 50665 | 17 50621 | 17 50539 | 17 50717 |
| 17 74899 | 17 74923 | 17 75031 | 17 75051 | 17 74947 | 17 74837 |
195 : *cphdvnphhnnornnowupltwzewzgtwx13*
| 16 24992 | 16 24992 | 16 24991 | 16 24981 | 16 24979 |
| 16 37429 | 16 37448 | 16 37448 | 16 37441 | 16 37438 |
196 : *cphnphdrordtwtrowplexhhmxtrmx13*
| 16 22821 | 17 45737 | 17 45799 | 15 11417 | 17 45483 | 17 45513 | 16 22773 |
| 16 40817 | 17 81639 | 17 81717 | 15 20469 | 17 81849 | 17 81727 | 16 40842 |
197 : *dewpnmwpkornphnphdumxtrowzxtwv*
| 16 21811 | 15 10921 | 15 10922 | 13 2733 | 14 5459 |
| 15 20283 | 13 5071 | 15 20287 | 16 40683 | 16 40705 |
198 : *cphdrorkphdvnphncpltwzewzgtwx13*
| 16 24994 | 16 25033 | 16 25069 | 16 25070 | 16 25051 | 16 25008 | 16 24993 | 16 24990 |
| 16 37504 | 16 37521 | 16 37624 | 16 37700 | 16 37717 | 16 37645 | 16 37614 | 16 37595 |
199 : *cphkphhnouupltwzewzvdvumxsornpl3*
| 16 24621 | 16 24648 | 16 24644 | 16 24623 | 16 24613 | 16 24615 |
| 16 36920 | 16 36926 | 16 36981 | 16 36975 | 16 36961 | 16 36949 |
200 : *mzernordfplvktrowxsmwpndgrnovdu*
| 16 25007 | 16 25037 | 16 25036 | 16 24968 | 15 12499 | 16 25003 |
| 16 37428 | 16 37434 | 16 37453 | 16 37449 | 16 37431 | 16 37429 |
201 : *cpdwvovzwtwvdcphnorkphnmwpnm13*
| 17 45657 | 15 11424 | 15 11412 | 13 2849 |
| 17 81552 | 15 20409 | 15 20421 | 13 5098 |
202 : *cplvnpetwzvdewzsmxhltwrhnorkornpl3*
| 17 49729 | 17 49725 | 17 49687 | 17 49665 |
| 17 76853 | 17 76925 | 17 77001 | 17 76919 |
203 : *cpdwrkphlexhhncpltwzewzsornovdvnpl3*
| 14 6157 | 16 24619 | 12 1535 | 13 3073 | 13 3079 |
| 15 18495 | 16 36983 | 14 9233 | 11 1153 | 15 18493 |
204 : *cphkoraxhhdvdtwupltvdezhdvorkphn*
| 16 25009 | 16 25025 | 16 25003 | 16 24979 | 16 24974 | 16 24979 |
| 16 37474 | 16 37494 | 16 37537 | 16 37554 | 16 37518 | 16 37508 |
205 : *rnmahducphnxtrowxtrowxsnphlexhdvno*
| 13 3111 | 14 6223 | 14 6175 | 13 3093 | 14 6199 |
| 14 9643 | 12 2415 | 14 9669 | 14 9649 | 14 9646 |

206 : *cphkotxhltrnperowpndewxewxtrovhnmx13*
| 16 24721 | 16 24664 | 16 24634 | 16 24677 | 16 24690 |
| 16 37031 | 16 37177 | 16 37144 | 16 37062 | 16 37044 |
207 : *cpdwwxtrmxewwpltwpkornphdvdewpnnphn*
| 16 23217 | 16 23241 | 16 23270 | 16 23268 | 16 23254 | 16 23206 | 16 23207 |
| 16 38020 | 16 38044 | 16 38076 | 16 38085 | 16 38089 | 16 38046 | 16 38022 |
208 : *nphhnmxgtwvpltdtrowxewwpltwrdvnphhn*
| 16 24963 | 15 12507 | 16 25063 | 14 6251 | 14 6215 |
| 16 37595 | 15 18826 | 16 37717 | 16 37787 | 16 37633 |
209 : *wxwwplrphoxevdrphmxvphoxevdrphowpltxt*
| 17 36943 | 17 37211 | 17 37723 | 17 37693 | 14 4675 | 14 4659 |
| 17 87557 | 17 87579 | 17 87767 | 17 87843 | 15 21937 | 14 10963 |
210 : *cpdwrtdvdttxgtwvpltkphnnormxhncphn*
| 17 49229 | 16 24615 | 16 24617 | 16 24610 | 16 24608 | 16 24612 |
| 17 73898 | 16 36950 | 16 36955 | 16 36959 | 16 36952 | 16 36949 |
211 : *mzhdvmzhdvklrowplrowplrowpkmzhdvmzhdv*
| 13 2751 | 9 175 | 11 699 | 14 5465 |
| 13 5436 | 11 1345 | 13 5375 | 12 2719 |
212 : *cphdtwxewwpltwrdvmxevdfphkornorkphlfpvl*
| 15 12498 | 16 25001 | 17 50007 | 16 24997 | 16 24970 |
| 15 18713 | 16 37426 | 17 74857 | 16 37479 | 16 37463 |
213 : *cphdvnphhkhplfpvlfpkmmwpltwxtvdtvkxtv*
| 15 12489 | 17 49963 | 16 24972 | 15 12485 |
| 15 18717 | 17 74882 | 16 37447 | 15 18719 |
214 : *cpltdvmxewwpltwpkornphdvdewxtvnormornp13*
| 16 23207 | 15 11617 | 16 23257 | 15 11618 | 16 23228 | 16 23210 | 16 23203 | 16 23198 |
| 16 38010 | 15 19016 | 16 38092 | 15 19061 | 16 38121 | 16 38116 | 16 38069 | 16 38027 |
215 : *cphkphdvnmxewwpltdtrowxewwpltdvdfphkornp13*
| 15 12355 | 16 24738 | 16 24732 | 17 49443 | 17 49401 | 16 24693 |
| 15 18520 | 16 37070 | 16 37120 | 17 74242 | 17 74245 | 16 37104 |
216 : *cpdwwxtdvdfpltwxewwpltdrphhnorkxvnpkphdrp13*
| 16 23192 | 16 23212 | 13 2901 | 15 11601 | 16 23189 | 15 11595 |
| 16 37975 | 16 37978 | 13 4753 | 15 19041 | 15 19039 | 16 38027 |
217 : *cphdvnornovhnorkphkphdvnmxewwgtwxgtwxgtwx13*
| 15 12342 | 13 3085 | 15 12337 | 15 12337 |
| 15 18528 | 13 4633 | 15 18532 | 15 18528 |
218 : *mzsmwxtrorkphnmxevdrphoxevdvnphkorowxtvkxv*
| 16 23222 | 16 23256 | 16 23226 |
| 16 38119 | 16 38121 | 16 38139 |
219 : *nphdvmxernorkphdtwxtrowxtwxhkhkornovdvmxhhn*
| 16 24834 | 15 12415 | 15 12398 | 16 24829 |
| 16 38551 | 15 19292 | 15 19292 | 16 38553 |
220 : *rnmxhkhkphdvnperowxttwxttwxtrowhnmxhkhkphdvn0*
| 15 12493 | 15 12508 | 13 3117 |
| 15 18793 | 15 18828 | 15 18805 |
221 : *cphnphnmwpkormxtdvewpnovdvnplrowxtwxtvkpltxhdv*
| 15 10921 | 16 21861 | 15 10923 |
| 15 20287 | 16 40583 | 15 20300 |