2013

1 = -**2**x(**0**+**1**)+**3** = -2x(1)+3 = -2+3 = 1
2 = -**2**+**0**+**1**+**3** = -2+4 = 2
3 = **2**x**0**+**1**x**3** = 0+3 = 3
4 = **2**x**0**+**1**+**3** = 0+4 = 4
5 = **2**+**0**+**1**x**3** = 2+3 = 5
6 = **2**+**0**+**1**+**3** = 2+4 = 6
7 = **20**-**13** = 7
8 = **2**x(**0**+**1**+**3**) = 2x4 = 8
9 = (**2**+**0**+**1**)x**3** = 3x3 = 9
10 = **20**/(-**1**+**3**) = 20/2 = 10
11 = -**2**+**0**+**13** = -2+13 = 11
12 = -(**2**^{0})+**13** = -1+13 = 12
13 = **2**x**0**+**13** = 0+13 = 13
14 = **2**^{0}+**13** = 1+13 = 14
15 = **2**+**0**+**13** = 2+13 = 15
16 = **20**-**1**-**3** = 20-4 = 16
17 = **20**-(**1**x**3**) = 20-3 = 17
18 = **20**-(-**1**+**3**) = 20-2 = 18
19 = **20**-(**1**^{3}) = 20-1 = 19
20 = **20**x(**1**^{3}) = 20x1 = 20
21 = **20**+(**1**^{3}) = 20+1 = 21
22 = **20**-**1**+**3** = 20+2 = 22
23 = -(**2**^{0})+(**1**+**3**)! = -1+4! = -1+24 = 23
24 = **20**+**1**+**3** = 20+4 = 24
25 = (**2**^{0})+(**1**+**3**)! = 1+4! = 1+24 = 25
26 = **2**+**0**+(**1**+**3**)! = 2+4! = 2+24 = 26
27 = (**2**+**0**+**1**)^{3} = 3^{3} = 27

Dla jasności: znak ? to **słabnia** - tj. suma kolejnych liczb naturalnych nie przekraczających n:

$$n? = 1+2+3+\ldots+n$$

$$n? = \frac{(1+n)n}{2}$$

Znak ?? to **słabnia podwójna** - tj. suma kolejnych liczb naturalnych nie przekraczających n o tej samej parzystości co n

Jeśli n jest liczbą parzystą, to n?? = 2 + 4 + 6 + … + n
Jeśli n jest liczbą nieparzystą, to n?? = 1 + 3 + 5 + … + n

Znak £ to **supersłabnia** - tj. suma słabni kolejnych liczb naturalnych nie przekraczających n

n£ = 1? + 2? + 3? + … + n?

Znak ! to **silnia** - tj. iloczyn kolejnych liczb naturalnych nie przekraczających n

n! = 1 x 2 x 3 x … x n

Znak !! to **podwójna silnia** - tj. iloczyn kolejnych liczb naturalnych nie przekraczających n o tej samej parzystości co n

Jeśli n jest liczbą parzystą, to n!! = 2 x 4 x 6 x … x n
Jeśli n jest liczbą nieparzystą, to n!! = 1 x 3 x 5 x … x n

Znak $ to **supersilnia** - tj. iloczyn silni kolejnych liczb naturalnych nie przekraczających n

n$ = 1! x 2! x 3! x … x n!

28 = (**20**-**13**)? = 7? = 1+2+3+4+5+6+7 = 3+7+11+7 = 10+18 = 28
29 = -**20**+**13**?? = -20+1+3+5+7+9+11+13 = -20+4+12+20+13 = -20+16+33 = -20+49 = 29
30 = (**2**+**0**!)!+(**1**+**3**)! = (2+1)!+4! = 3!+24 = 6+24 = 30
31 = [(**2**+**0**!)!+ **1**]?+**3** = [(2+1)!+1]?+3 = [3!+1]?+3 = [6+1]?+3 = 7?+3 = 1+2+3+4+5+6+7+3 =
= 3+7+11+10 = 10+21 = 31
32 = **2** $^{(\mathbf{0}-\mathbf{1}+\mathbf{3}!)}$ = $2^{(-1+6)}$ = 2^5 = 32
33 = **20**+**13**
34 = [(**2**+**0**!)!+ **1**]?+**3**! = [(2+1)!+1]?+6 = [3!+1]?+6 = [6+1]?+6 = 7?+6 = 1+2+3+4+5+6+7+6 =
= 3+7+11+13 = 10+24 = 34
35 = [(**2**+**0**!)!]!!- **13** = [(2+1)!]!!-13 = [3!]!!-13 = 6!!-13 = 2x4x6-13 = 48-13 = 35
36 = (**2**+**0**+**1**)!x**3**! = 3!x3! = 6x6 = 36
37 = {[(**2**?)!]??}??-**0**!-**1**-**3** = {[3!]??}??-1-4 = {6??}??-5 = {2+4+6}??-5 = 12??- 5 =
= 2+4+6+8+10+12-5 = 6+14+22-5 = 20+17 = 37
38 = -[(**2**?)??]+[-(**0**!)+ **13**]?? = -[3??]+[-1+13]?? = -[1+3]+[12]?? = -4+2+4+6+8+10+12 =
= 2+14+22 = 16+22 = 38
39 = -(**2**?)+[-(**0**!)+**13**]?? = -3+[-1+13]?? = -3+12?? = -3+2+4+6+8+10+12 = 3+14+22 =
= 17+22 = 39
40 = **20**x(-**1**+**3**) = 20x2 = 40
41 = {[(**2**?)!]??}??+**0**!+**1**-**3** = {[3!]??}??+1-2 = {6??}??-1 = {2+4+6}??-1 = 12??-1 =
= 2+4+6+8+10+12-1 = 6+14+22-1 = 20+21 = 41
42 = [(**2**+**0**!)!+ **1**]x**3**! = [(2+1)!+1]x6 = [3!+1]x6 = [6+1]x6 = 7x6 = 42
43 = -[(**2**+**0**!)!]+**13**?? = -[(2+1)!]+1+3+5+7+9+11+13 = -[3!]+4+12+20+13 = -6+16+33 =
= 10+33 = 43
44 = **20**+(**1**+**3**)! = 20+4! = 20+24 = 44
45 = [(**2**+**0**+**1**)x**3**]? = [3x3]? = 9? = 1+2+3+4+5+6+7+8+9 = 3+7+11+15+9 = 10+26+9 =
= 36+9 = 45
46 = (**2**?)??+[-(**0**!)+ **13**]?? = 3??+[-1+13]?? = 1+3+12?? = 4+2+4+6+8+10+12 =
= 6+10+18+12 = 16+30 = 46
47 = -**2**+**0**+**13**?? = -2+1+3+5+7+9+11+13 = 2+12+20+13 = 14+33 = 47
48 = (**2**+**0**)x[(**1**+**3**)!] = 2x[4!] = 2x24 = 48
49 = (**2**x**0**+**13**)?? = (0+13)?? = 13?? = 1+3+5+7+9+11+13 = 4+12+20+13 = 16+33 = 49
50 = -[(**2**?)!]+(**0**!+**13**)?? = -[3!]+(1+13)?? = -6+14?? = -6+2+4+6+8+10+12+14 =
= 0+14+22+14 = 14+36 = 50
51 = 2+0+13?? = 2+1+3+5+7+9+11+13 = 3+8+16+24 = 11+40 = 51
52 = 2+0!+13?? = 2+1+1+3+5+7+9+11+13 = 3+4+12+20+13 = 7+32+13 = 39+13 = 52
53 = -(2?)+(0!+13)?? = -3+(1+13)?? = -3+14?? = -3+2+4+6+8+10+12+14 =
= -1+10+18+26 = 9+44 = 53
54 = -2+(0!+13)?? = -2+14?? = -2+2+4+6+8+10+12+14 = 0+10+18+26 = 10+44 = 54

Dla ułatwienia zapisu obliczymy pewne wyrażenia:
2? = 1+2 = 3
3? = 2?+3 = 6
4? = 3?+4 = 10
5? = 4?+5 = 15
6? = 5?+6 = 21
7? = 6?+7 = 28
8? = 7?+8 = 36
9? = 8?+9 = 45
10? = 9?+10 = 45+10 = 55
11? = 10?+11 = 55+11 = 66
12? = 11?+12 = 66+12 = 78
13? = 12?+13 = 78+13 = 91

14? = 13?+14 = 91+14 = 105
15? = 14?+15 = 120
16? = 15?+16 = 136
20? = 1+2+3+4+5+6+7+8+9+10+11+12+13+14+15+16+17+18+19+20 =
= 3+7+11+15+19+23+27+31+35+39 = 10+26+42+58+74 = 36+100+74 = 136+74 = 210
13?? = 1+3+5+7+9+11+13 = 4+12+20+13 = 16+33 = 49
14?? = 2+4+6+8+10+12+14 = 6+14+22+14 = 20+36 = 56
17?? = 13??+15+17 = 49+15+17 = 64+17 = 81
19?? = 17??+19 = 81+19 = 100
20?? = 2+4+6+8+10+12+14+16+18+20 = 6+14+22+30+38 = 20+52+38 = 20+90 = 110
21?? = 19??+21 = 100+21 = 121
22?? = 20??+22 = 110+22 = 132
23?? = 21??+23 = 121+23 = 144
24?? = 22??+24 = 132+24 = 156
25?? = 23??+25 = 144+25 = 169
26?? = 24??+26 = 156+26 = 182
27?? = 25??+27 = 169+27 = 196
28?? = 26??+28 = 182+28 = 210
29?? = 27??+29 = 196+29 = 225
55 = (2+0!)!+13?? = (2+1)!+49 = 3!+49 = 6+49 = 55
56 = (2^0+13)?? = (1+13)?? = 14?? = 56
57 = (2?+0!)!!+13?? = (3+1)!!+49 = 4!!+49 = 8+49 = 57
58 = 2+(0!+13)?? = 2+(1+13)?? = 2+14?? = 2+56 = 58
59 = 2?+(0!+13)?? = 3+(1+13)?? = 3+14?? = 3+56 =59
60 = 20^1x3 = 20x3 = 60
61 = 20??-13?? = 110-49 = 61
62 = (2?)!+(0!+13)?? = 3!+(1+13)?? = 6+14?? = 6+56 = 62
63 = (20+1)x3 = 21x3 = 63
64 = $2^{(0x1+3!)}$ = $2^{(0+6)}$ = 2^6 = 64
65 = {[(2?)!]??}?-0-13 = {[3!]??}?-13 = {6??}?-13 = 12?-13 = 78-13 = 65
66 = (-2+0+13)? = 11? = 66
67 = 201:3 = 67
68 = $2^{[(0!+1)?]!}$+3?? = $2^{[(1+1)?]!}$+4 = $2^{[2?]!}$+4 = $2^{3!}$+4 = 2^6+4 = 64+4 = 68
69 = 20+13?? = 20+49 = 69
70 = 20?/(1x3) = 210/3 = 70
71 = -20+13? = -20+91 = 71
72 = (2+0!+1)!x3 = (2+1+1)!x3 = 4!x3 = 24x3 = 72
Obliczmy wyrażenie:
[(3!)??]? = [6??]? = [2+4+6]? = 12? = 78
73 = -(2?)-0!-1+[(3!)??]? = -3-1-1+78 = -5+78 = 73
74 = -2-0!-1+[(3!)??]? = -2-1-1+78 = -4+78 = 74
75 = -2+0-1+[(3!)??]? = -3+78 = 75
76 = -2+(-0!+13)? = -2+(-1+13)? = -2+12? = -2+78 = 76
77 = 2x0-1+[(3!)??]? = 0-1+78 = 77
78 = 2x0x1+[(3!)??]? = 0+78 = 78
79 = 2x0+1+[(3!)??]? = 0+1+78 = 79
80 = 20x(1+3) = 20x4=80
81 = (2?+0!+13)?? = (3+1+13)?? = 17?? = 81
82 = 2+0!+1+[(3!)??]? = 2+1+1+78 = 4+78 = 82
83 = 2?+0!+1+[(3!)??]? = 3+1+1+78 = 5+78 = 83
84 = -(2?)!-0!+13? = -3!-1+91 = -6+90 = 84

85 = -(2?)!+0+13? = -3!+0+91 = -6+91 = 85
86 = -(2?)!+0!+13? = -3!+1+91 = -6+92 = 86
87 = -(2?)-0!+13? = -3-1+91 = -4+91 = 87
88 = -(2?)+0+13? = -3+0+91 = 88
89 = -2+0+13? = -2+91 = 89
90 = -(2^0)+13? = -1+91 = 90
91 = (2x0+13)? = (0+13)? = 13? = 91
92 = 2^0+13? = 1+91 = 92
93 = 2+0+13? = 2+91 = 93
94 = 2?+0+13? = 3+91 = 94
95 = 2?+0!+13? = 3+1+91 = 95
96 = (2?)!-0!+13? = 3!-1+91 = 6+90 = 96
97 = (2?)!+0+13? = 3!+0+91 = 6+91 = 97
98 = (2?)!+0!+13? = 3!+1+91 = 6+92 = 98
99 = -(2?)!+(0!+13)? = -3!+(1+13)? = -6+14? = -6+105 = 99
100 = (20-1^3)?? = (20-1)?? = 19?? = 100

Obliczmy wyrażenie:
(1+3!)!! = (1+6)!! = 7!! = 1x3x5x7 = 3x35 = 105

101 = -(2?)-0!+(1+3!)!! = -3-1+105 = -4+105 = 101
102 = -2-0!+(1+3!)!! = -2-1+105 = -3+105 = 102
103 = -2+0+(1+3!)!! = -2+105 = 103
104 = -(2^0)+(1+3!)!! = -1+105 = 104
105 = 2x0+(1+3!)!! = 0+105 = 105
106 = 2^0+(1+3!)!! = 1+105 = 106
107 = 2+0+(1+3!)!! = 2+105 = 107
108 = 2+0! +(1+3!)!! = 2+1+105 = 108
109 = 2?+0! +(1+3!)!! = 3+1+105 = 109
110 = (2?)!-0! +(1+3!)!! = 3!-1+105 = 6-1+105 = 110
111 = (2?)!+0+(1+3!)!! = 3!+105 = 6+105 = 111
112 = (2?)!+0! +(1+3!)!! = 3!+1+105 = 6+1+105 = 112

Obliczmy wyrażenie:
(1+3??)! = (1+4)! = 5! = 120

113 = -[(2?)!]-0!+(1+3??)! = -[3!]-1+120 = -6-1+120 = 113
114 = -[(2?!]+0+(1+3??)! = -[3!]+0+120 = -6+120 = 114
115 = -[(2?)??]-0! +(1+3??)! = -[3??]-1+120 = -4-1+120 = 115
116 = -(2?)-0! +(1+3??)! = -3-1+120 = 116
117 = -2-0! +(1+3??)! = -2-1+120 = 117
118 = -2+0+(1+3??)! = -2+120 = 118
119 = -(2^0) +(1+3??)! = -1+120 = 119
120 = 2x0+(1+3??)! = 0+120 = 120
121 = 2^0+(1+3??)! = 1+120 = 121
122 = 2+0+(1+3??)! = 2+120 = 122
123 = 2+0! +(1+3??)! = 2+1+120 = 123
124 = 2?+0!+(1+3??)! = 3+1+120 = 124
125 = (2?)??+0!+(1+3??)! = 3??+1+120 = 4+1+120 = 125
126 = (2?)!+0+(1+3??)! = 3!+0+120 = 6+120 = 126
127 = (2?)!+0!+(1+3??)! = 3!+1+120 = 6+1+120 = 127
128 = (2?+0!)!!+(1+3??)! = (3+1)!!+120 = 4!!+120 = 8+120 = 128
129 = [(2?)??]!!+0!+(1+3??)! = [3??]!!+1+120 = 4!!+121 = 8+121 = 129
130 = (2?+0!)?+(1+3??)! = (3+1)?+120 = 4?+120 = 10+120 = 130
131 = [(2?)??]?+0!+(1+3??)! = [3??]?+1+120 = 4?+121 = 10+121 = 131

132 = (2?)$+0+(1+3??)! = 3$+120 = 2!x3!+120 = 2x6+120 = 12+120 = 132
133 = (2?)$+0!+(1+3??)! = 3$+1+120 = 12+121 = 133

Obliczmy wyrażenia:
7£ = 1?+2?+3?+4?+5?+6?+7? = 1+3+6+10+15+21+28 = 4+16+36+28 = 20+64 = 84
8£ = 7£+8? = 84+36 = 120
9£ = 8£+9? = 120+45 = 165
10£ = 9£+10? = 165+55 = 220
11£ = 10£+11? = 220+66 = 286
[(3??)!!]£ = [4!!]£ = 8£ = 120
{[(2?)!-0!]?+1}? = {[3!-1]?+1}? = {[6-1]?+1}? = {5?+1}? = {15+1}? = 16? = 136
{[(2?)??]!}?? = {[3??]!}?? = {4!}?? = 24?? = 156

134 = (2?)$+0!+1+[(3??)!!]£ = 3$+1+1+120 = 12+122 = 134
135 = (2?+0!+1)!!+ [(3??)!!]£ = (3+1+1)!!+120 = 5!!+120 = 1x3x5+120 = 15+120 = 135
136 = [(2?)??+0!]!!+1+[(3??)!!]£ = [3??+1]!!+1+120 = [4+1]!!+121 = 5!!+121 = 15+121 = 136
137 = [(2?)!]?-[(0!+1)?]??+[(3??)!!]£ = [3!]?-[(1+1)?]??+120 = 6?-[2?]??+120 = 21-3??+120 =
= 21-4+120 = 17+120 = 137
138 = [(2?)!+0!]£-1+[(3??)?]? = [3!+1]£-1+[4?]? = [6+1]£-1+10? = 7£-1+55 = 84+54 = 138
139 = {[(2?)!-0!]?+1}?+3 = 136+3 = 139
140 = {[(2?)!-0!]?+1}?+3?? = 136+4 = 140
141 = (20+1)??+(3??)£ = 21??+4£ = 121+20 = 141
142 = {[(2?)!-0!]?+1}?+3! = 136+6 = 142
143 = {[(2?)??]!}??-0-1-[(3!)??] = {[3??]!}??-1-[6??] = {4!}??-1-12 = 24??-13 = 156-13 = 143
144 = {[(2?)??]!}??-0x1-[(3!)??] = 156-0-[6??] = 156-12 = 144
145 = {[(2?)??]!}??-0+1-[(3!)??] = 156+1-[6??] = 157-12 = 145
146 = {[(2?)??]!}??-[(0!+1)?]??-3! = 156-[(1+1)?]??-6 = 156-[2?]??-6 = 156-3??-6 = 156-4-6 =
= 156-10 = 146
147 = {[(2?)??]!}??-(0!+1)?x3 = 156-(1+1)?x3 = 156-2?x3 = 156-3x3 = 156-9 = 147
148 = {[(2?)??]!}??-0!-1-3! = 156-1-1-6 = 156-8 = 148
149 = {[(2?)??]!}??-0-1-3! = 156-1-6 = 156-7 = 149
150 = {[(2?)??]!}??+0x1-3! = 156+0-6 = 150
151 = {[(2?)??]!}??-0!-1-3 = 156-1-1-3 = 156-5 = 151
152 = {[(2?)??]!}??+0-1-3 = 156-4 = 152
153 = {[(2?)??]!}??+0x1-3 = 156+0-3 = 153
154 = {[(2?)??]!}??+0+1-3 = 156-2 = 154
155 = {[(2?)??]!}??+0!+1-3 = 156+1-2 = 155
156 = (20+1+3)?? = 24?? = 156
157 = {[(2?)??]!}??-0!-1+3 = 156-1+2 = 157
158 = {[(2?)??]!}??+0-1+3 = 156+2 = 158
159 = {[(2?)??]!}??+0x1+3 = 156+0+3 = 159
160 = {[(2?)??]!}??+0+1+3 = 156+4 = 160
161 = {[(2?)??]!}??+0!+1+3 = 156+1+4 = 161
162 = {[(2?)??]!}??+0x1+3! = 156+0+6 = 162
163 = {[(2?)??]!}??+0+1+3! = 156+1+6 = 163
164 = {[(2?)??]!}??+0!+1+3! = 156+1+1+6 = 164
165 = {[(2?)??]!}??+(0!+1)?x3 = 156+(1+1)?x3 = 156+2?x3 = 156+3x3 = 156+9 = 165
166 = {[(2?)??]!}??+[(0!+1)?]??+3! = 156+[(1+1)?]??+6 = 162+[2?]?? = 162+3?? = 162+4 =166
167 = {[(2?)??]!}??+0-1+(3!)?? = 156-1+6?? = 155+12 = 167
168 = {[(2?)??]!}??+0!-1+(3!)?? = 156+1-1+6?? = 156+12 = 168
169 = {[(2?)??]!}??+0+1+(3!)?? = 156+1+6?? = 157+12 = 169
170 = {[(2?)??]!}??+0!+1+(3!)?? = 156+1+1+6?? = 158+12 = 170
171 = {[(2?)??]!}??+(0!+1)?+(3!)?? = 156+(1+1)?+6?? = 156+2?+12 = 168+3 = 171

172 = {[(2?)??]!}??+[(0!+1)?]??+(3!)?? = 156+[(1+1)?]??+6?? = 156+[2?]??+12 = 168+3?? =
= 168+4 = 172

Obliczmy wyrażenie:
[1+(3??)!!]£ = [1+4!!]£ = [1+8]£ = 9£ = 165

173 = (2?+0!)!!+[1+(3??)!!]£ = (3+1)!!+165 = 4!!+165 = 8+165 = 173
174 = [(2?)??+0!]??+[1+(3??)!!]£ = [3??+1]??+165 = [4+1]??+165 = 5??+165 = 9+165 = 174
175 = (2?+0!)?+[1+(3??)!!]£ = (3+1)?+165 = 4?+165 = 10+165 = 175
176 = [(2?)??]?+0!+[1+(3??)!!]£ = [3??]?+1+165 = 4?+166 = 10+166 = 176
177 = (2?)$+0+[1+(3??)!!]£ = 3$+0+165 = 12+165 = 177
178 = (2?)$+0!+[1+(3??)!!]£ = 3$+1+165 = 12+166 = 178

Obliczmy wyrażenie:
{[(1+3??)??]??}?? = {[(1+4)??]??}?? = {[5??]??}?? = {9??}?? = 25?? = 169

179 = (2?+0!)?+{[(1+3??)??]??}?? = (3+1)?+169 = 4?+169 = 10+169 = 179
180 = [(2?)??]?+0!+{[(1+3??)??]??}?? = [3??]?+1+169 = 4?+170 = 10+170 = 180
181 = (2?)$+0+{[(1+3??)??]??}?? = 3$+0+169 = 12+169 = 181
182 = (2?)$+0!+{[(1+3??)??]??}?? = 3$+1+169 = 12+170 = 182

Obliczmy wyrażenie:
({[(2?)??]!!}??-0!)? = ({[3??]!!}??-1)? = ({4!!}??-1)? = (8??-1)? = (20-1)? = 19? = 190

183 = ({[(2?)??]!!}??-0!)?-1-3! = 190-1-6 = 183
184 = ({[(2?)??]!!}??-0!)?-(1x3)! = 190-3! = 190-6 = 184
185 = ({[(2?)??]!!}??-0!)?+1-3! = 190+1-6 = 185
186 = ({[(2?)??]!!}??-0!)?-1-3 = 190-4 = 186
187 = ({[(2?)??]!!}??-0!)?-1x3 = 190-3 = 187
188 = ({[(2?)??]!!}??-0!)?+1-3 = 190-2 = 188
189 = ({[(2?)??]!!}??-0!)?-1^3 = 190-1 = 189
190 = (20+0!+1-3)? = (20+1-2)? = 19? = 190
191 = ({[(2?)??]!!}??-0!)?+1^3 = 190+1 = 191
192 = ({[(2?)??]!!}??-0!)?-1+3 = 190+2 = 192
193 = ({[(2?)??]!!}??-0!)?+1x3 = 190+3 = 193
194 = ({[(2?)??]!!}??-0!)?+1+3 = 190+4 = 194
195 = ({[(2?)??]!!}??-0!)?-1+3! = 190-1+6 = 195
196 = ({[(2?)??]!!}??-0!)?+1x3! = 190+6 = 196
197 = ({[(2?)??]!!}??-0!)?+1+3! = 190+1+6 = 197

Obliczmy wyrażenie:
{[(1+3)!!]??}? = {[4!!]??}? = {8??}? = 20? = 210

198 = 201-3 = 198
199 = -{[(2?)??]?}-0!+{[(1+3)!!]??}? = -{[3??]?}-1+210 = -{4?}+209 = -10+209 = 199
200 = -[(2?+0!)?]+{[(1+3)!!]??}? = -[(3+1)?]+210 = -[4?]+210 = -10+210 = 200
201 = -{[(2?)??+0!]??}+{[(1+3)!!]??}? = -{[3??+1]??}+210 = -{[4+1]??}+210 = -{5??}+210 =
= -9+210 = 201
202 = -[(2?+0!)!!]+{[(1+3)!!]??}? = -[(3+1)!!]+210 = -[4!!]+210 = -8+210 = 202
203 = -(2?)!-0!+{[(1+3)!!]??}? = -3!-1+210 = -6+209 = 203
204 = 201+3 = 204
205 = 201+3?? = 201+4 = 205
206 = -[(2+0!)??]+{[(1+3)!!]??}? = -[(2+1)??]+210 = -[3??]+210 = -4+210 = 206
207 = 201+3! = 201+6 = 207
208 = -2+0+{[(1+3)!!]??}? = -2+210 = 208
209 = 201+(3??)!! = 201+4!! = 201+8 = 209
210 = [20+(1+3)!!]?? = [20+4!!]?? = [20+8]?? = 28?? = 210
211 = 201+3£ = 201+10 = 211
212 = 2-0+{[(1+3)!!]??}? = 2+210 = 212

213 = 201+3$ = 201+12 = 213
214 = (2+0!)??+{[(1+3)!!]??}? = (2+1)??+210 = 3??+210 = 4+210 = 214
215 = (2?)??+0!+{[(1+3)!!]??}? = 3??+1+210 = 4+211 = 215
216 = (2+0!)!+{[(1+3)!!]??}? = (2+1)!+210 = 3!+210 = 6+210 = 216
217 = (2?)!+0!+{[(1+3)!!]??}? = 3!+1+210 = 6+211 = 217
218 = (2?+0!)!!+{[(1+3)!!]??}? = (3+1)!!+210 = 4!!+210 = 8+210 = 218
219 = [(2?)??+0!]??+{[(1+3)!!]??}? = [3??+1]??+210 = [4+1]??+210 = 5??+210 =
= 9+210 = 219
220 = (2?+0!)?+{[(1+3)!!]??}? = (3+1)?+210 = 4?+210 = 10+210 = 220
221 = 201+(3??)£ = 201+4£ = 201+20 = 221
222 = 201+(3!)? = 201+6? = 201+21 = 222
223 = 20?+13 = 210+13 = 223

Obliczmy wyrażenie:
{[(3??)!!]??}? = {[4!!]??}? = {8??}? = 20? = 210

224 = {[(2?)??]+0!}?-1+{[(3??)!!]??}? = {[3??]+1}?-1+210 = {4+1}?+209 = 5?+209 =
= 15+209 = 224
225 = 201+(3??)! = 201+4! = 201+24 = 225
226 = {[(2?)??]+0!}?+1+{[(3??)!!]??}? = {[3??]+1}?+1+210 = {4+1}?+211 = 5?+211 =
= 15+211 = 226
227 = 2+[0!+(1+3!)?]?? = 2+[1+(1+6)?]?? = 2+[1+7?]?? = 2+[1+28]?? = 2+29?? = 2+225 = 227

Obliczmy wyrażenia:
[(3??)?]£ = [4?]£ = 10£ = 220
[(3£)??]?? = [10??]?? = 30?? = 28??+30 = 210+30 = 240

228 = (2?)!+0!+1+[(3??)?]£ = 3!+1+1+220 = 6+222 = 228
229 = -{[(2+0!)??]?}-1+[(3£)??]?? = -{[(2+1)??]?}-1+240 = -{[3??]?}+239 = -{4?}+239 =
= -10+239 = 229
230 = -[(2+0!+1)?]+[(3£)??]?? = -[(2+1+1)?]+240 = -[4?]+240 = -10+240 = 230
231 = -{[(2+0!)??]?}+1+[(3£)??]?? = -{[(2+1)??]?+1+240 = -{[3??]?+241 = -{4?}+241 =
= -10+241 = 231
232 = -[(2+0!+1)!!]+ [(3£)??]?? = -[(2+1+1)!!]+240 = -[4!!]+240 = -8+240 = 232
233 = -(2?)!+0-1+[(3£)??]?? = -3!-1+240 = -6+239 = 233
234 = (20+1)?+3 = 21?+3 = 231+3 = 234
235 = (20+1)?+3?? = 21?+4 = 231+4 = 235
236 = -2-0!-1+[(3£)??]?? = -2-1-1+240 = 236
237 = 201+[(3??)!!]? = 201+[4!!]? = 201+8? = 201+36 = 237
238 = -2+0x1+[(3£)??]?? = -2+0+240 = 238
239 = (20+1)?+(3??)!! = 21?+4!! = 231+8 = 239
240 = 2x0x1+[(3£)??]?? = 0+240 = 240
241 = 2+0-1+[(3£)??]?? = 1+240 = 241
242 = 2+0x1+[(3£)??]?? = 2+0+240 = 242
243 = 2+0+1+[(3£)??]?? = 3+240 = 243
244 = 2+0!+1+[(3£)??]?? = 2+1+1+240 = 244
245 = 2?+0!+1+[(3£)??]?? = 3+1+1+240 = 245
246 = (2+0+1)!+ [(3£)??]?? = 3!+240 = 6+240 = 246
247 = (2?)!+0+1+[(3£)??]?? = 3!+1+240 = 6+241 = 247
248 = (2+0!+1)!!+[(3£)??]?? = (2+1+1)!!+240 = 4!!+240 = 8+240 = 248
249 = [(2+0!)??]?-1+[(3£)??]?? = [(2+1)??]?-1+240 = [3??]?+239 = 4?+239 = 10+239 = 249
250 = (2+0!+1)?+[(3£)??]?? = (2+1+1)?+240 = 4?+240 = 10+240 = 250
251 = [(2+0!)??]?+1+[(3£)??]?? = [(2+1)??]?+1+240 = [3??]?+241 = 4?+241 = 10+241 = 251
252 = (2+0+1)$+[(3£)??]?? = 3$+240 = 12+240 = 252
253 = (2+0!)$+1+[(3£)??]?? = (2+1)$+1+240 = 3$+241 = 12+241 = 253

254 = [(2?)!-0!]?-1+[(3£)??]?? = [3!-1]?-1+240 = [6-1]?+239 = 5?+239 = 15+239 = 254
255 = [2?+0!+1]?+[(3£)??]?? = [3+1+1]?+240 = 5?+240 = 15+240 = 255
256 = [(2?)!-0!]?+1+[(3£)??]?? = [3!-1]?+1+240 = [6-1]?+241 = 5?+241 = 15+241 = 256
257 = 201+(3!)£ = 201+6£ = 201+56 = 257

Obliczmy wyrażenia:
31?? = 29??+31 = 225+31 = 256
[1+(3£)??]?? = [1+10??]?? = [1+30]?? = 31?? = 256

258 = 2+0+[1+(3£)??]?? = 2+256 = 258
259 = 2+0!+[1+(3£)??]?? = 2+1+256 = 259
260 = 2?+0!+[1+(3£)??]?? = 3+1+256 = 260
261 = (2?)!-0!+[1+(3£)??]?? = 3!-1+256 =6+255 = 261
262 = (2?)!+0+[1+(3£)??]?? = 3!+0+256 = 6+256 = 262
263 = (2?)!+0!+[1+(3£)??]?? = 3!+1+256 = 6+257 = 263
264 = [(2?)+0!]!!+[1+(3£)??]?? = [3+1]!!+256 = 4!!+256 = 8+256 = 264
265 = 20?+1x[(3£)?] = 210+1x[10?] = 210+1x55 = 210+55 = 265
266 = [(2?)??]?+0+[1+(3£)??]?? = [3??]?+0+256 = 4?+256 = 10+256 = 266
267 = [(2?)??]?+0!+[1+(3£)??]?? = [3??]?+1+256 = 4?+257 = 10+257 = 267
268 = (2?)$+0+[1+(3£)??]?? = 3$+0+256 = 12+256 = 268
269 = (2?)$+0!+[1+(3£)??]?? = 3$+1+256 = 12+257 = 269
270 = [20+(0!+1)?]?-3! = [20+(1+1)?]?-6 = [20+2?]?-6 = [20+3]?-6 = 23?-6 = 276-6 = 270
271 = -({[(2?)??]+0!}!!)+[1+(3??)?]£ = -({[3??]+1}!!)+[1+4?]£ = -({4+1}!!)+[1+10]£ =
= -(5!!)+11£ = -15+286 = 271
272 = [20+(0!+1)?]?-(3??) =[20+(1+1)?]?-4 = [20+2?]?-4 = [20+3]?-4 = 23?-4 = 276-4 = 272
273 = [20+(0!+1)?]?-3 = [20+(1+1)?]?-3 = [20+2?]?-3 = [20+3]?-3 = 23?-3 = 276-3 = 273
274 = -[(2+0!)$]+[1+(3??)?]£ = -[(2+1)$]+[1+4?]£ = -[3$]+[1+10]£ = -12+11£ = -12+286 = 274

Obliczmy wyrażenia:
3$ = 1!x2!x3! = 1x2x6 = 12
4$ = 3$x4! = 12x24 = 288

275 = -[(2?)$]-0!+(1+3)$ = -[3$]-1+288 = -12+287 = 275
276 = -[(2+0!)$]+(1+3)$ = -[(2+1)$]+4$ = -[3$]+288 = -12+288 = 276
277 = -{[(2?)??]?}-0!+(1+3)$ = -{[3??]?}-1+288 = -{4?}+287 = -10+287 = 277
278 = -{[(2?)??]?}+0+(1+3)$ = -{[3??]?}+0+288 = -{4?}+288 = -10+288 = 278
279 = -{[(2?)??]?}+0!+(1+3)$ = -{[3??]?}+1+288 = -{4?}+289 = -10+289 = 279
280 = -[(2?+0!)!!]+(1+3)$ = -[(3+1)!!]+4$ = -[4!!]+288 = -8+288 = 280
281 = -(2?)!-0!+(1+3)$ =-3!-1+288 = -6+287 = 281
282 = -(2+0!)!+(1+3)$ = -(2+1)!+4$ = -3!+288 = -6+288 = 282
283 = -[(2?)??]-0!+(1+3)$ = -[3??]-1+4$ = -4-1+288 = 283
284 = -2?-0!+(1+3)$ = -3-1+4$ = -4+288 = 284
285 = -2-0!+(1+3)$ = -2-1+4$ = -3+288 = 285
286 = -2+0+(1+3)$ = -2+4$ = -2+288 = 286
287 = -2+0!+(1+3)$ = -2+1+4$ = -1+288 = 287
288 = 2x0+(1+3)$ = 0+4$ = 288
289 = 2-0!+(1+3)$ = 2-1+4$ = 1+288 = 289
290 = 2+0+(1+3)$ = 2+4$ = 2+288 = 290
291 = 2+0!+(1+3)$ = 2+1+4$ = 3+288 = 291
292 = 2?+0!+(1+3)$ = 3+1+4$ = 4+288 = 292
293 = (2?)??+0!+(1+3)$ = 3??+1+4$ = 4+1+288 = 293
294 = (2+0!)!+(1+3)$ = (2+1)!+4$ = 3!+288 = 6+288 = 294
295 = (2?)!+0!+(1+3)$ =3!+1+288 = 6+289 = 295
296 = (2?+0!)!!+(1+3)$ = (3+1)!!+4$ = 4!!+288 = 8+288 = 296
297 = [(2?)??]?-0!+(1+3)$ = [3??]?-1+288 = 4?+287 = 10+287 = 297

298 = [(2?)??]?+0+(1+3)$ = [3??]?+0+288 = 4?+288 = 10+288 = 298
299 = [(2?)??]?+0!+(1+3)$ = [3??]?+1+288 = 4?+289 = 10+289 = 299
300 = (2+0!)$+(1+3)$ = (2+1)$+4$ = 3$+288 = 12+288 = 300
301 = 20?+13? = 210+91 = 301
302 = [(2?)!-0!]?-1+(3??)$ = [3!-1]?-1+4$ = [6-1]?-1+288 = 5?+287 = 15+287 = 302
303 = [2?+0!+1]?+(3??)$ = [3+1+1]?+4$ = 5?+288 = 15+288 = 303
304 = [(2?)!-0!]?+1+(3??)$ = [3!-1]?+1+4$ = [6-1]?+1+288 = 5?+289 = 15+289 = 304
305 = [(2?)??]$+{[(0!+1)?]??}£-3 = [3??]$+{[(1+1)?]??}£-3 = 4$+{[2?]??}£-3 =
= 288+{3??}£-3 = 285+4£ = 285+20 = 305
306 = [(2?)??]$+{[(0!+1)?]!}?-3 = [3??]$+{[(1+1)?]!}?-3 = 4$+{[2?]!}?-3 = 288+{3!}?-3 =
= 285+6? = 285+21 = 306
307 = [(2?)??]$-0!+[(1+3)!!]?? = [3??]$-1+[4!!]?? = 4$-1+8?? = 288-1+20 = 307

Wyliczymy:
32?? = 30??+32 = 240+32 = 272
34?? = 32??+34 = 272+34 = 306

308 = 2+[-0!+(1+3??)£]?? = 2+[-1+(1+4)£]?? = 2+[-1+5£]?? = 2+[-1+35]?? = 2+34?? =
= 2+306 = 308
309 = 2?+[-0!+(1+3??)£]?? = 3+[-1+(1+4)£]?? = 3+[-1+5£]?? = 3+[-1+35]?? = 3+34?? =
= 3+306 = 309
310 = (2?)??+[-0!+(1+3??)£]?? = 3??+[-1+(1+4)£]?? = 4+[-1+5£]?? = 4+[-1+35]?? = 4+34?? =
= 4+306 = 310

Obliczmy wyrażenia:
33?? = 31??+33 = 256+33 = 289
35?? = 33??+35 = 289+35 = 324
{-1+[(3??)!!]?}?? = {-1+[4!!]?}?? = {-1+8?}?? = {-1+36}?? = 35?? = 324

311 = -[(2?)$]-0!+{-1+[(3??)!!]?}?? = -[3$]-1+324 = -12+323 = 311
312 = -[(2+0!)$]+{-1+[(3??)!!]?}?? = -[(2+1)$]+324 = -[3$]+324 = -12+324 = 312
313 = -{[(2?)??]?}-0!+{-1+[(3??)!!]?}?? = -{[3??]?}-1+324 = -{4?}+323 = -10+323 = 313
314 = -[(2?+0!)?]+{-1+[(3??)!!]?}?? = -[(3+1)?]+324 = -[4?]+324 = -10+324 = 314
315 = -{[(2?)!-0!]??}+{-1+[(3??)!!]?}?? = -{[3!-1]??}+324 = -{[6-1]??}+324 = -{5??}+324 =
= -9+324 = 315
316 = -[(2?+0!)!!]+{-1+[(3??)!!]?}?? = -[(3+1)!!]+324 = -[4!!]+324 = -8+324 = 316
317 = -(2?)!-0!+{-1+[(3??)!!]?}?? = -3!-1+324 = -6+323 = 317
318 = -(2?)!+0+{-1+[(3??)!!]?}?? = -3!+0+324 = -6+324 = 318
319 = -(2?)!+0!+{-1+[(3??)!!]?}?? = -3!+1+324 = -6+325 = 319
320 = -(2?)-0!+{-1+[(3??)!!]?}?? = -3-1+324 = 320
321 = -2-0!+{-1+[(3??)!!]?}?? = -2-1+324 = 321
322 = -2+0+{-1+[(3??)!!]?}?? = -2+324 = 322
323 = -2+0!+{-1+[(3??)!!]?}?? = -2+1+324 = 323
324 = 2x0+{-1+[(3??)!!]?}?? = 0+324 = 324
325 = 2-0!+{-1+[(3??)!!]?}?? = 2-1+324 = 325
326 = 2+0+{-1+[(3??)!!]?}?? = 2+324 = 326
327 = 2+0!+{-1+[(3??)!!]?}?? = 2+1+324 = 327
328 = 2?+0!+{-1+[(3??)!!]?}?? = 3+1+324 = 328
329 = (2?)!-0!+{-1+[(3??)!!]?}?? = 3!-1+324 = 6+323 = 329
330 = 20?+[(1+3)!!]£ = 210+[4!!]£ = 210+8£ = 210+120 = 330
331 = (2?)!+0!+{-1+[(3??)!!]?}?? = 3!+1+324 = 6+325 = 331
332 = (2?+0!)!!+{-1+[(3??)!!]?}?? = (3+1)!!+324 = 4!!+324 = 8+324 = 332
333 = [(2?)!-0!]??+{-1+[(3??)!!]?}?? = [3!-1]??+324 = [6-1]??+324 = 5??+324 = 9+324 = 333
334 = (2?+0!)?+{-1+[(3??)!!]?}?? = (3+1)?+324 = 4?+324 = 10+324 = 334
335 = [(2?)??]?+0!+{-1+[(3??)!!]?}?? = [3??]?+1+324 = 4?+325 = 10+325 = 335

336 = (2+0!)$+{-1+[(3??)!!]?}?? = (2+1)$+324 = 3$+324 = 12+324 = 336
337 = (2?)$+0!+{-1+[(3??)!!]?}?? = 3$+1+324 = 12+325 = 337