

solution for generalized four-fours problem by numbers(1, 2, 3, 4)
from 0 to 1000.

2011年3月23日

$$\begin{aligned}0 &= 1 - (2 + 3) + 4 \\1 &= 1^{234} \\2 &= 1 + 2 + 3 - 4 \\3 &= 1 + 2 \times 3 - 4 \\4 &= 1 + 2 - 3 + 4 \\5 &= 12 - (3 + 4) \\6 &= 1 - 2 + 3 + 4 \\7 &= 1 + \sqrt{2 + 34} \\8 &= -1 + 2 + 3 + 4 \\9 &= 1 \times (2 + 3 + 4) \\10 &= 1 + 2 + 3 + 4 \\11 &= 12 + 3 - 4 \\12 &= 12 \times (-3 + 4) \\13 &= 12 - 3 + 4 \\14 &= 1 \times (2 + 3 \times 4) \\15 &= 1 + 2 + 3 \times 4 \\16 &= (-1 + 2 + 3) \times 4 \\17 &= 12 + 3 + \sqrt{4} \\18 &= -1 + 23 - 4 \\19 &= 12 + 3 + 4 \\20 &= 1 + 23 - 4 \\21 &= 1 + (2 + 3) \times 4 \\22 &= -12 + 34 \\23 &= -1 + 2 \times 3 \times 4 \\24 &= 12 + 3 \times 4 \\25 &= 1 + 2 \times 3 \times 4 \\26 &= -1 + 23 + 4 \\27 &= 1 \times (23 + 4) \\28 &= 1 + 23 + 4\end{aligned}$$

$29 = 1 \times (2 + 3 + 4!)$
 $30 = (12 + 3) \times \sqrt{4}$
 $31 = -(1 + 2) + 34$
 $32 = 12 \times 3 - 4$
 $33 = 1 - 2 + 34$
 $34 = (-1 + 2) \times 34$
 $35 = -1 + 2 + 34$
 $36 = 1 \times (2 + 34)$
 $37 = 1 + 2 + 34$
 $38 = 12 \times 3 + \sqrt{4}$
 $39 = 12 + 3 + 4!$
 $40 = 12 \times 3 + 4$
 $41 = -(1 + 2 \times (3 - 4!))$
 $42 = (1 + 2)! \times (3 + 4)$
 $43 = 1 + 2 \times (-3 + 4!)$
 $44 = (-1 + 23) \times \sqrt{4}$
 $45 = -1 + 23 \times \sqrt{4}$
 $46 = 12 + 34$
 $47 = 1 + 23 \times \sqrt{4}$
 $48 = 1 + 23 + 4!$
 $49 = 1 + 2 \times 3! \times 4$
 $50 = (1 + (-2 + 3!)!) \times \sqrt{4}$
 $51 = (1 + 2)^3 + 4!$
 $52 = (1 + 2 \times 3!) \times 4$
 $53 = -1 + 2 \times (3 + 4!)$
 $54 = 1 \times 2 \times (3 + 4!)$
 $55 = 1 + 2 \times (3 + 4!)$
 $56 : \text{not found.}$
 $57 : \text{not found.}$
 $58 : \text{not found.}$
 $59 = -1 + 2^{3!} - 4$
 $60 = (12 + 3) \times 4$
 $61 = 1 + 2^{3!} - 4$
 $62 = 1 \times \left(2^{3!} - \sqrt{4}\right)$
 $63 = (1 + 2) \times (-3 + 4!)$
 $64 = 1 \times 2^{3 \times \sqrt{4}}$
 $65 = 1 + 2^{3 \times \sqrt{4}}$
 $66 = -(1 + 2)! + 3 \times 4!$
 $67 = -1 + 2 \times 34$

$68 = 1 \times 2 \times 34$
 $69 = 1 + 2 \times 34$
 $70 = 1 \times (-2 + 3 \times 4!)$
 $71 = 1 - 2 + 3 \times 4!$
 $72 = 12 \times 3 \times \sqrt{4}$
 $73 = -1 + 2 + 3 \times 4!$
 $74 = 1 \times (2 + 3 \times 4!)$
 $75 = 1 + 2 + 3 \times 4!$
 $76 = 12 \times 3! + 4$
 $77 : \text{not found.}$
 $78 = -(1 + 2) + 3^4$
 $79 = 1 \times (-2 + 3^4)$
 $80 = 1 - 2 + 3^4$
 $81 = (1 + 2) \times (3 + 4!)$
 $82 = -1 + 2 + 3^4$
 $83 = 1 \times (2 + 3^4)$
 $84 = 12 \times (3 + 4)$
 $85 : \text{not found.}$
 $86 : \text{not found.}$
 $87 = (1 + 2)! + 3^4$
 $88 = (-1 + 23) \times 4$
 $89 = 1 + 2^{3!} + 4!$
 $90 = (1 + 2) \times (3! + 4!)$
 $91 = -1 + 23 \times 4$
 $92 = 1 \times 23 \times 4$
 $93 = 1 + 23 \times 4$
 $94 : \text{not found.}$
 $95 = -1 + (2 + 3)! - 4!$
 $96 = (1 + 23) \times 4$
 $97 = 1 + (2 + 3)! - 4!$
 $98 : \text{not found.}$
 $99 = 123 - 4!$
 $100 = (1 + (-2 + 3!)!) \times 4$
 $101 : \text{not found.}$
 $102 = (1 + 2) \times 34$
 $103 : \text{not found.}$
 $104 : \text{not found.}$
 $105 : \text{not found.}$
 $106 : \text{not found.}$
 $107 : \text{not found.}$

$108 = (1 + 2)^3 \times 4$
 109 : not found.
 110 : not found.
 111 : not found.
 112 : not found.
 113 : not found.
 $114 = -(1 + 2)! + (3 + \sqrt{4})!$
 $115 = -1 + (2 + 3)! - 4$
 $116 = 1 \times ((2 + 3)! - 4)$
 $117 = 1 + (2 + 3)! - 4$
 $118 = 1 \times ((2 + 3)! - \sqrt{4})$
 $119 = 123 - 4$
 $120 = (12 - (3 + 4))!$
 $121 = 123 - \sqrt{4}$
 $122 = 1 \times \left(2 + (3 + \sqrt{4})!\right)$
 $123 = -1 + (2 + 3)! + 4$
 $124 = 1 \times ((2 + 3)! + 4)$
 $125 = 123 + \sqrt{4}$
 $126 = (1 + 2)! + (3 + \sqrt{4})!$
 $127 = 123 + 4$
 $128 = 1 \times 2^{3+4}$
 $129 = 1 + 2^{3+4}$
 $130 = (1 + 2^{3!}) \times \sqrt{4}$
 131 : not found.
 $132 = 12 + (3 + \sqrt{4})!$
 133 : not found.
 134 : not found.
 135 : not found.
 136 : not found.
 137 : not found.
 $138 = -(1 + 2)! + 3! \times 4!$
 139 : not found.
 140 : not found.
 $141 = -(1 + 2) + 3! \times 4!$
 $142 = 1 \times (-2 + 3! \times 4!)$
 $143 = -1 + 2 \times 3 \times 4!$
 $144 = 12 \times 3 \times 4$
 $145 = 1 + 2 \times 3 \times 4!$
 $146 = 1 \times (2 + 3! \times 4!)$

$$147 = 123 + 4!$$

148 : not found.

149 : not found.

$$150 = (1 + 2)! + 3! \times 4!$$

151 : not found.

152 : not found.

153 : not found.

154 : not found.

155 : not found.

$$156 = 12 + 3! \times 4!$$

157 : not found.

158 : not found.

159 : not found.

160 : not found.

$$161 = -1 + 2 \times 3^4$$

$$162 = 1 \times 2 \times 3^4$$

$$163 = 1 + 2 \times 3^4$$

164 : not found.

165 : not found.

166 : not found.

167 : not found.

$$168 = (1 + 2 \times 3) \times 4!$$

$$169 = \sqrt{1 + 2 \times 3!}^4$$

170 : not found.

171 : not found.

172 : not found.

173 : not found.

$$174 = -(1 + 2)! + \frac{(3!)!}{4}$$

175 : not found.

176 : not found.

$$177 = \frac{-12 + (3!)!}{4}$$

$$178 = 1 \times \left(-2 + \frac{(3!)!}{4} \right)$$

$$179 = -1 + \frac{(2 \times 3)!}{4}$$

$$180 = \frac{(1 + 2 + 3)!}{4}$$

$$181 = 1 + \frac{(2 \times 3)!}{4}$$

$$182 = 1 \times \left(2 + \frac{(3!)!}{4} \right)$$

$$183 = \frac{12 + (3!)!}{4}$$

184 : not found.

185 : not found.

$$186 = (1 + 2)! + \frac{(3!)!}{4}$$

187 : not found.

188 : not found.

189 : not found.

190 : not found.

$$191 = -1 + 2^3 \times 4!$$

$$192 = 12 + \frac{(3!)!}{4}$$

$$193 = 1 + 2^3 \times 4!$$

194 : not found.

195 : not found.

196 : not found.

197 : not found.

198 : not found.

199 : not found.

200 : not found.

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202 : not found.

203 : not found.

$$204 = (1 + 2)! \times 34$$

205 : not found.

206 : not found.

207 : not found.

208 : not found.

209 : not found.

$$210 = \frac{(1 + 2 \times 3)!}{4!}$$

211 : not found.

$$212 = (1 + 2)!^3 - 4$$

$$213 = -(1 + 2) + \sqrt{\sqrt{\sqrt{3!}}^4}$$

$$214 = (1 + 2)!^3 - \sqrt{4}$$

$$215 = -1 + \sqrt{\sqrt{\sqrt{2 \times 3}}^4}$$

$$216 = (12 - 3) \times 4!$$

$$217 = 1 + \sqrt{\sqrt{\sqrt{2 \times 3}}^4}$$

$$218 = (1 + 2)!^3 + \sqrt{4}$$

$$219 = 1 + 2 + \sqrt{\sqrt{3!}^{4!}}$$

$$220 = (1+2)!^3 + 4$$

221 : not found.

$$222 = (1+2)! + \sqrt{\sqrt{\sqrt{3!}^{4!}}}$$

223 : not found.

224 : not found.

$$225 = (12+3)^{\sqrt{4}}$$

226 : not found.

227 : not found.

$$228 = 12 + \sqrt{\sqrt{\sqrt{3!}^{4!}}}$$

229 : not found.

230 : not found.

231 : not found.

232 : not found.

$$233 = -1 + 234$$

$$234 = 1 \times 234$$

$$235 = 1 + 234$$

$$236 = \frac{((1+2)!)!}{3} - 4$$

237 : not found.

$$238 = (-1 + (2+3)!) \times \sqrt{4}$$

$$239 = -1 + 2 \times (3 + \sqrt{4})!$$

$$240 = 1 \times 2 \times (3 + \sqrt{4})!$$

$$241 = 1 + 2 \times (3 + \sqrt{4})!$$

$$242 = (1 + (2+3)!) \times \sqrt{4}$$

$$243 = (1+2) \times 3^4$$

$$244 = \frac{((1+2)!)!}{3} + 4$$

245 : not found.

$$246 = 123 \times \sqrt{4}$$

247 : not found.

248 : not found.

249 : not found.

250 : not found.

251 : not found.

$$252 = 12 \times (-3 + 4!)$$

253 : not found.

254 : not found.

$$255 = -1 + (2 - 3!)^4$$

$$256 = (1 - (2 + 3))^4$$

$$257 = 1 + (2 - 3!)^4$$

258 : not found.

259 : not found.

$$260 = (1 + 2^{3!}) \times 4$$

261 : not found.

262 : not found.

263 : not found.

$$264 = (-1 + 2 \times 3!) \times 4!$$

265 : not found.

266 : not found.

267 : not found.

268 : not found.

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285 : not found.

286 : not found.

$$287 = -1 + 2 \times 3! \times 4!$$

$$288 = 12 \times 3! \times 4$$

$$289 = 1 + 2 \times 3! \times 4!$$

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307 : not found.
308 : not found.
309 : not found.
310 : not found.
311 : not found.
312 = $(1 + 2 \times 3!) \times 4!$
313 : not found.
314 : not found.
315 : not found.
316 : not found.
317 : not found.
318 : not found.
319 : not found.
320 : not found.
321 : not found.
322 : not found.
323 = $-1 + (\sqrt{2} \times 3)^4$
324 = $12 \times (3 + 4!)$
325 = $1 + (\sqrt{2} \times 3)^4$
326 : not found.
327 : not found.
328 : not found.
329 : not found.
330 : not found.
331 : not found.
332 : not found.
333 : not found.
334 : not found.
335 : not found.

$$336 = \frac{1}{2} \times (3!)! - 4!$$

337 : not found.

338 : not found.

339 : not found.

340 : not found.

341 : not found.

342 : not found.

$$343 = \sqrt{\sqrt{\sqrt{1 + 2 \times 3}}}^{4!}$$

344 : not found.

345 : not found.

346 : not found.

347 : not found.

$$348 = -12 + \frac{(3!)!}{\sqrt{4}}$$

349 : not found.

350 : not found.

351 : not found.

352 : not found.

353 : not found.

$$354 = \frac{-12 + (3!)!}{\sqrt{4}}$$

355 : not found.

$$356 = \frac{1}{2} \times (3!)! - 4$$

$$357 = -(1 + 2) + \frac{(3!)!}{\sqrt{4}}$$

$$358 = \frac{1}{2} \times ((3!)! - 4)$$

$$359 = -1 + \frac{(2 \times 3)!}{\sqrt{4}}$$

$$360 = (12 + 3) \times 4!$$

$$361 = 1 + \frac{(2 \times 3)!}{\sqrt{4}}$$

$$362 = \frac{1}{2} \times ((3!)! + 4)$$

$$363 = 1 + 2 + \frac{(3!)!}{\sqrt{4}}$$

$$364 = \frac{1}{2} \times (3!)! + 4$$

365 : not found.

$$366 = \frac{12 + (3!)!}{\sqrt{4}}$$

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371 : not found.
$$372 = 12 + \frac{(3!)!}{\sqrt{4}}$$

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383 : not found.
$$384 = \frac{1}{2} \times (3!)! + 4!$$

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407 : not found.
$$408 = 12 \times 34$$

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$$431 = -1 + 2 \times \sqrt{\sqrt{\sqrt{3!}^4}}$$

$$432 = \frac{12^3}{4}$$

$$433 = 1 + 2 \times \sqrt{\sqrt{\sqrt{3!}^4}}$$

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473 : not found.
474 : not found.
475 : not found.
476 = $(-1 + (2 + 3)!) \times 4$
477 : not found.
478 : not found.
479 = $-1 + (2 + 3)! \times 4$
480 = $1 \times (2 + 3)! \times 4$
481 = $1 + (2 + 3)! \times 4$
482 : not found.
483 : not found.
484 = $(1 + (2 + 3)!) \times 4$
485 : not found.
486 = $(1 + 2)! \times 3^4$
487 : not found.
488 : not found.
489 : not found.

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491 : not found.

$$492 = 123 \times 4$$

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$$504 = ((1+2)!)! - \sqrt{\sqrt{\sqrt{3!}^4}}$$

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508 : not found.

509 : not found.

510 : not found.

$$511 = -1 + 2^{\sqrt{3}^4}$$

$$512 = 1 \times 2^{\sqrt{3}^4}$$

$$513 = 1 + 2^{\sqrt{3}^4}$$

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527 : not found.

$$528 = (-1 + 23) \times 4!$$

$$529 = 1 \times \sqrt{23}^4$$

$$530 = 1 + \sqrt{23}^4$$

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539 : not found.

$$540 = ((1+2)!)! \times \frac{3}{4}$$

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550 : not found.

$$551 = -1 + 23 \times 4!$$

$$552 = 1 \times 23 \times 4!$$

$$553 = 1 + 23 \times 4!$$

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573 : not found.

574 : not found.

$$575 = -1 + \left(2 \times \sqrt{3!}\right)^4$$

$$576 = (1 + 23) \times 4!$$

$$577 = 1 + \left(2 \times \sqrt{3!}\right)^4$$

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598 : not found.

599 : not found.

$$600 = (1 + (-2 + 3!)!) \times 4!$$

601 : not found.

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623 : not found.

$$624 = -1 + (2 + 3)^4$$

$$625 = 1 \times (2 + 3)^4$$

$$626 = 1 + (2 + 3)^4$$

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638 : not found.

$$639 = ((1 + 2)!)! - 3^4$$

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645 : not found.

646 : not found.

$$647 = -1 + \left(\frac{\sqrt{\sqrt{2}}}{3!} \right)^{-4}$$

$$648 = (1 + 2)^3 \times 4!$$

$$649 = 1 + \left(\frac{\sqrt{\sqrt{2}}}{3!} \right)^{-4}$$

650 : not found.
651 : not found.
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676 : not found.
677 : not found.
678 : not found.
679 : not found.
680 : not found.
681 : not found.
682 : not found.
683 : not found.
684 = $-12 + (3!)! - 4!$
685 : not found.
686 = $((1 + 2)!)! - 34$
687 : not found.
688 : not found.
689 : not found.
690 = $((1 + 2)!)! - (3! + 4!)$
691 : not found.

692 : not found.

$$693 = ((1 + 2)!!) - (3 + 4!)$$

$$694 = 1 \times (-2 + (3!)! - 4!)$$

$$695 = -1 + (2 \times 3)! - 4!$$

$$696 = (1 + 2 + 3)! - 4!$$

$$697 = 1 + (2 \times 3)! - 4!$$

$$698 = 1 \times (2 + (3!)! - 4!)$$

$$699 = 1 + 2 + (3!)! - 4!$$

700 : not found.

701 : not found.

$$702 = (1 + 2)! + (3!)! - 4!$$

703 : not found.

$$704 = -12 + (3!)! - 4$$

$$705 = (1 + 2)^{3!} - 4!$$

$$706 = -12 + (3!)! - \sqrt{4}$$

707 : not found.

$$708 = -12 + (3 \times \sqrt{4})!$$

709 : not found.

$$710 = -12 + (3!)! + \sqrt{4}$$

$$711 = ((1 + 2)!!) - \sqrt{3}^4$$

$$712 = -12 + (3!)! + 4$$

$$713 = ((1 + 2)!!) - (3 + 4)$$

$$714 = 1 \times (-2 + (3!)! - 4)$$

$$715 = -1 + (2 \times 3)! - 4$$

$$716 = (1 + 2 + 3)! - 4$$

$$717 = 1 + (2 \times 3)! - 4$$

$$718 = (1 + 2 + 3)! - \sqrt{4}$$

$$719 = -1 + \sqrt{2 + 34!}$$

$$720 = (1 - 2 + 3 + 4)!$$

$$721 = 1 + \sqrt{2 + 34!}$$

$$722 = (1 + 2 + 3)! + \sqrt{4}$$

$$723 = -1 + (2 \times 3)! + 4$$

$$724 = (1 + 2 + 3)! + 4$$

$$725 = 1 + (2 \times 3)! + 4$$

$$726 = 1 \times (2 + (3!)! + 4)$$

$$727 = 1 + 2 + (3!)! + 4$$

$$728 = 12 + (3!)! - 4$$

$$729 = (1 + 2)^{3 \times \sqrt{4}}$$

$$730 = 12 + (3!)! - \sqrt{4}$$

$$731 = (1 + 2)^{3!} + \sqrt{4}$$

$$732 = 12 + (3 \times \sqrt{4})!$$

$$733 = (1 + 2)^{3!} + 4$$

$$734 = 12 + (3!)! + \sqrt{4}$$

$$735 = (1 + 2)! + \sqrt{\sqrt{3}}^{4!}$$

$$736 = 12 + (3!)! + 4$$

737 : not found.

$$738 = ((1 + 2)!)! - 3! + 4!$$

739 : not found.

740 : not found.

$$741 = 12 + \sqrt{\sqrt{3}}^{4!}$$

$$742 = 1 \times (-2 + (3!)! + 4!)$$

$$743 = -1 + (2 \times 3)! + 4!$$

$$744 = (1 + 2 + 3)! + 4!$$

$$745 = 1 + (2 \times 3)! + 4!$$

$$746 = 1 \times (2 + (3!)! + 4!)$$

$$747 = 1 + 2 + (3!)! + 4!$$

748 : not found.

749 : not found.

$$750 = (1 + 2)! + (3!)! + 4!$$

751 : not found.

752 : not found.

$$753 = (1 + 2)^{3!} + 4!$$

$$754 = ((1 + 2)!)! + 34$$

755 : not found.

$$756 = 12 + (3!)! + 4!$$

757 : not found.

758 : not found.

759 : not found.

760 : not found.

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792 = $((1 + 2)!)! + 3 \times 4!$
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794 : not found.
795 : not found.
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800 : not found.
801 = $((1 + 2)!)! + 3^4$
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840 = $((1 + 2)!)! + (3 + \sqrt{4})!$
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864 = $12 \times 3 \times 4!$
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866 : not found.
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897 : not found.
898 : not found.
899 : not found.
900 = $((1 + 2)!)! + \frac{(3!)!}{4}$
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$$936 = ((1+2)!)! + \sqrt{\sqrt{\sqrt{3!}}^{4!}}$$

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$$960 = \frac{((1+2)!)!}{3} \times 4$$

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967 : not found.

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971 : not found.

$$972 = 12 \times 3^4$$

973 : not found.

974 : not found.

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Found 290 in 1001. Elapsed 2.697 seconds.