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

2011 年 3 月 22 日

$$0 = 4 \times (44 - 44)$$
$$1 = 4^{44-44}$$
$$2 = \sqrt{4} + 44 - 44$$
$$3 = 4 - \frac{44}{44}$$
$$4 = 4 + 44 - 44$$
$$5 = 4 + \frac{44}{44}$$
$$6 = \frac{4 + 44}{4 + 4}$$
$$7 = 4 + \frac{4 + 4 + 4}{4}$$
$$8 = 4 + 4 + 4 \times (4 - 4)$$
$$9 = \frac{44 - (4 + 4)}{4}$$
$$10 = 4 + 4 + \frac{4 + 4}{4}$$
$$11 = 4 + \frac{44}{4} - 4$$
$$12 = 4 + 4 + 4 + 4 - 4$$
$$13 = \frac{4 + 4 + 44}{4}$$
$$14 = 4 + \frac{44 - 4}{4}$$
$$15 = \frac{44 + 4 \times 4}{4}$$
$$16 = 4 + \frac{4 + 44}{4}$$
$$17 = \sqrt{4} + 4 + \frac{44}{4}$$
$$18 = \sqrt{4} + 4 + 4 + 4 + 4$$
$$19 = 4 + 4 + \frac{44}{4}$$
$$20 = 4 + 4 + 4 + 4 + 4$$

$$21 = 4 + \frac{4}{4} + 4 \times 4$$
$$22 = \frac{44 + 44}{4}$$
$$23 = 4! - \frac{44}{44}$$
$$24 = 44 - (4 + 4 \times 4)$$
$$25 = 4! + \frac{44}{44}$$
$$26 = \sqrt{4} + 4 + 4 + 4 \times 4$$
$$27 = 4 \times 4 + \frac{44}{4}$$
$$28 = 4 + 4 + 4 + 4 \times 4$$
$$29 = 4! + \frac{4 + 4 \times 4}{4}$$
$$30 = \sqrt{4} + 44 - 4 \times 4$$
$$31 = 4 \times (4 + 4) - \frac{4}{4}$$
$$32 = 44 - (4 + 4 + 4)$$
$$33 = 44 - \frac{44}{4}$$
$$34 = 44 - \left(\sqrt{4} + 4 + 4\right)$$
$$35 = \frac{44 + 4! \times 4}{4}$$
$$36 = 4 + 4 \times 4 + 4 \times 4$$
$$37 = 44 - \frac{4! + 4}{4}$$
$$38 = \sqrt{4} + 44 - (4 + 4)$$
$$39 = 44 - \left(4 + \frac{4}{4}\right)$$
$$40 = 4 + 44 - (4 + 4)$$
$$41 = \frac{4}{4} + 44 - 4$$
$$42 = 44 - \frac{4 + 4}{4}$$
$$43 = \frac{4 \times 44 - 4}{4}$$
$$44 = 44 + 4 \times (4 - 4)$$
$$45 = \frac{4 + 4 \times 44}{4}$$
$$46 = 44 + \frac{4 + 4}{4}$$
$$47 = 4 + 44 - \frac{4}{4}$$
$$48 = 4 + 4 + 44 - 4$$
$$49 = 4 + \frac{4}{4} + 44$$
$$50 = 4 + 4 + 44 - \sqrt{4}$$

$$51 = 44 + \frac{4! + 4}{4}$$
$$52 = 4 + 4 \times (4 + 4 + 4)$$
$$53 = \frac{4^4 - 44}{4}$$
$$54 = \sqrt{4} + 4 + 4 + 44$$
$$55 = 44 + \frac{44}{4}$$
$$56 = 4 + 4 + 4 + 44$$
$$57 = \frac{4}{4} + \sqrt{4} \times (4! + 4)$$
$$58 = 44 + 4 \times 4 - \sqrt{4}$$
$$59 = \frac{4^4 - 4}{4} - 4$$
$$60 = (4 + 4) \times (4 + 4) - 4$$
$$61 = \frac{4 + 4^4}{4} - 4$$
$$62 = \sqrt{4} + 44 + 4 \times 4$$
$$63 = 4 \times 4 \times 4 - \frac{4}{4}$$
$$64 = 4 + 44 + 4 \times 4$$
$$65 = \frac{4}{4} + 4 \times 4 \times 4$$
$$66 = 44 + \frac{44}{\sqrt{4}}$$
$$67 = 4! + 44 - \frac{4}{4}$$
$$68 = 4 + (4 + 4) \times (4 + 4)$$
$$69 = 4! + \frac{4}{4} + 44$$
$$70 = \sqrt{4} + 4 + 4 \times 4 \times 4$$
$$71 = \frac{4! + 4 + 4^4}{4}$$
$$72 = 4 + 4 + 4 \times 4 \times 4$$
$$73 = \frac{4}{4} + 4! \times 4 - 4!$$
$$74 = \frac{444}{\sqrt{4} + 4}$$
$$75 = \frac{44 + 4^4}{4}$$
$$76 = 44 + 4 \times (4 + 4)$$
$$77 = \left(4 - \frac{4}{4}\right)^4 - 4$$
$$78 = 4 \times (4 + 4 \times 4) - \sqrt{4}$$
$$79 = 4 \times (4! - 4) - \frac{4}{4}$$
$$80 = 4 \times 4 + 4 \times 4 \times 4$$

$$81 = \left(\frac{4+4+4}{4}\right)^4$$
$$82 = \sqrt{4} + 4 \times (4 + 4 \times 4)$$
$$83 = \sqrt{4} + \left(4 - \frac{4}{4}\right)^4$$
$$84 = 44 + 44 - 4$$
$$85 = 4 + \left(4 - \frac{4}{4}\right)^4$$
$$86 = 44 + 44 - \sqrt{4}$$
$$87 = \frac{444}{4} - 4!$$
$$88 = 44 \times \frac{4+4}{4}$$
$$89 = \frac{4}{4} + \sqrt{4} \times 44$$
$$90 = \sqrt{4} + 44 + 44$$
$$91 = 4! \times 4 - \left(4 + \frac{4}{4}\right)$$
$$92 = 4 + 44 + 44$$
$$93 = \frac{4}{4} + 4! \times 4 - 4$$
$$94 = \sqrt{4} + 4 + \sqrt{4} \times 44$$
$$95 = 4 \times \left(4! - \frac{4}{4 \times 4}\right)$$
$$96 = (4 + 4) \times (4 + 4 + 4)$$
$$97 = 4 \times \left(4! + \frac{4}{4 \times 4}\right)$$
$$98 = \sqrt{4} + \sqrt{4} \times (4 + 44)$$
$$99 = 4 + 4! \times 4 - \frac{4}{4}$$
$$100 = 4 + \sqrt{4} \times (4 + 44)$$
$$101 = 4 + \frac{4}{4} + 4! \times 4$$
$$102 = 4 + 4 + 4! \times 4 - \sqrt{4}$$
$$103 = 4 \times \left(\sqrt{4} + 4!\right) - \frac{4}{4}$$
$$104 = \sqrt{4} \times (4 + 4 + 44)$$
$$105 = \frac{444 - 4!}{4}$$
$$106 = \sqrt{4} + 4 + 4 + 4! \times 4$$
$$107 = \frac{444}{4} - 4$$
$$108 = 44 + 4 \times 4 \times 4$$
$$109 = \frac{444}{4} - \sqrt{4}$$

$$110 = \frac{444 - 4}{4}$$
$$111 = \frac{444}{\sqrt{4 \times 4}}$$
$$112 = \frac{4 + 444}{4}$$
$$113 = \sqrt{4} + \frac{444}{4}$$
$$114 = 4 + 4 \times (4! + 4) - \sqrt{4}$$
$$115 = 4 + \frac{444}{4}$$
$$116 = 4 + 4! \times 4 + 4 \times 4$$
$$117 = \frac{4! + 444}{4}$$
$$118 = \sqrt{4} + 4 + 4 \times (4! + 4)$$
$$119 = \left(4 + \frac{4}{4}\right)! - \frac{4}{4}$$
$$120 = \sqrt{4} \times (44 + 4 \times 4)$$
$$121 = \frac{4}{4} + \left(4 + \frac{4}{4}\right)!$$
$$122 = 4 + \left(4 + \frac{4}{4}\right)! - \sqrt{4}$$
$$123 = \sqrt{4} + \left(\frac{44}{4}\right)^{\sqrt{4}}$$
$$124 = 4 \times 4 \times (4 + 4) - 4$$
$$125 = 4 + \left(\frac{44}{4}\right)^{\sqrt{4}}$$
$$126 = 4 \times 4 \times (4 + 4) - \sqrt{4}$$
$$127 = \frac{\sqrt{4} \times 4^4 - 4}{4}$$
$$128 = 4 \times (4 \times 4 + 4 \times 4)$$
$$129 = \frac{4 + \sqrt{4} \times 4^4}{4}$$
$$130 = \sqrt{4} + 4 \times 4 \times (4 + 4)$$
$$131 = \frac{\sqrt{4} + 4 + 4^4}{\sqrt{4}}$$
$$132 = 4 \times 44 - 44$$
$$133 = 4 + \frac{\sqrt{4} + 4^4}{\sqrt{4}}$$
$$134 = 4 + \frac{4 + 4^4}{\sqrt{4}}$$
$$135 = 4! + \frac{444}{4}$$
$$136 = 4 \times \left(\sqrt{4} + 4 \times (4 + 4)\right)$$

$$137 = \frac{4! \times 4! - (4! + 4)}{4}$$
$$138 = 44 + 4! \times 4 - \sqrt{4}$$
$$139 = \frac{4! \times 4! - 4}{4} - 4$$
$$140 = 4 \times \left(4! + \frac{44}{4}\right)$$
$$141 = \frac{4 + 4! \times 4!}{4} - 4$$
$$142 = \sqrt{4} + 44 + 4! \times 4$$
$$143 = 4! \times \left(\sqrt{4} + 4\right) - \frac{4}{4}$$
$$144 = 4 \times (44 - (4 + 4))$$
$$145 = \frac{4}{4} + 4! \times \left(\sqrt{4} + 4\right)$$
$$146 = \sqrt{4} + (4 + 4 + 4)^{\sqrt{4}}$$
$$147 = 4 + \frac{4! \times 4! - 4}{4}$$
$$148 = 4 \times 44 - (4! + 4)$$
$$149 = 4 + \frac{4 + 4! \times 4!}{4}$$
$$150 = \frac{44 + 4^4}{\sqrt{4}}$$
$$151 = 4! + \frac{4^4 - \sqrt{4}}{\sqrt{4}}$$
$$152 = 4 \times \left(44 - \left(\sqrt{4} + 4\right)\right)$$
$$153 = 4! + \frac{\sqrt{4} + 4^4}{\sqrt{4}}$$
$$154 = 44 \times \left(4 - \frac{\sqrt{4}}{4}\right)$$
$$155 = \frac{4! \times 4! + 44}{4}$$
$$156 = 4 \times (44 - 4) - 4$$
$$157 = \frac{4 + (\sqrt{4} + 4)!}{4} - 4!$$
$$158 = 4 \times (44 - 4) - \sqrt{4}$$
159 : not found.
$$160 = (4 + 4) \times (4 + 4 \times 4)$$
161 : not found.
$$162 = \sqrt{4} + 4 \times (44 - 4)$$
$$163 = \frac{\left(\sqrt{4} + 4!\right)^{\sqrt{4}} - 4!}{4}$$
$$164 = 4 + 4 \times (44 - 4)$$

$$165 = 44 \times \left(4 - \sqrt{\sqrt{4}}^{-4}\right)$$
$$166 = 4 \times \left(44 - \sqrt{4}\right) - \sqrt{4}$$
$$167 = \frac{4! \times (4! + 4) - 4}{4}$$
$$168 = 4 \times 44 - (4 + 4)$$
$$169 = \frac{(\sqrt{4} + 4)! - 44}{4}$$
$$170 = 4 \times 44 - \left(\sqrt{4} + 4\right)$$
$$171 = \sqrt{4} + \frac{\left(\sqrt{4} + 4!\right)^{\sqrt{4}}}{4}$$
$$172 = 4 \times \left(44 - \frac{4}{4}\right)$$
$$173 = \frac{(\sqrt{4} + 4)! - (4! + 4)}{4}$$
$$174 = \sqrt{4} + 4 \times 44 - 4$$
$$175 = 4 \times 44 - \frac{4}{4}$$
$$176 = 4 + 4 \times 44 - 4$$
$$177 = \frac{4}{4} + 4 \times 44$$
$$178 = 4 + 4 \times 44 - \sqrt{4}$$
$$179 = \frac{(4 + 4 - \sqrt{4})! - 4}{4}$$
$$180 = 4 \times \left(\frac{4}{4} + 44\right)$$
$$181 = \frac{4 + (4 + 4 - \sqrt{4})!}{4}$$
$$182 = \sqrt{4} + 4 + 4 \times 44$$
$$183 = 4 + \frac{(\sqrt{4} + 4)! - 4}{4}$$
$$184 = 4 + 4 + 4 \times 44$$
$$185 = 4 + \frac{4 + (\sqrt{4} + 4)!}{4}$$
$$186 = \sqrt{4} + 4 \times \left(\sqrt{4} + 44\right)$$
$$187 = 44 \times \left(4 + \sqrt{\sqrt{4}}^{-4}\right)$$
$$188 = 4 \times (4 + 44) - 4$$
$$189 = \sqrt{4} \times 4! \times \left(4 - \sqrt{4}^{-4}\right)$$
$$190 = 4 \times (4 + 44) - \sqrt{4}$$
$$191 = 4! \times (4 + 4) - \frac{4}{4}$$

$192 = 4 \times 4 + 4 \times 44$

$193 = \dfrac{4}{4} + 4! \times (4 + 4)$

$194 = \sqrt{4} + 4 \times (4 + 44)$

$195 = \dfrac{(4! + 4)^{\sqrt{4}} - 4}{4}$

$196 = 4 + 4 \times (4 + 44)$

$197 = \dfrac{4 + (4! + 4)^{\sqrt{4}}}{4}$

$198 = 44 \times \left(4 + \dfrac{\sqrt{4}}{4}\right)$

$199 = \dfrac{\sqrt{4! - 4}^{4} - \sqrt{4}}{\sqrt{4}}$

$200 = 4 \times \left(\sqrt{4} + 4 + 44\right)$

$201 = \dfrac{\sqrt{4} + \sqrt{4! - 4}^{4}}{\sqrt{4}}$

$202 = \sqrt{4} + 4! + 4 \times 44$

$203 = 4! + \dfrac{\left(\sqrt{4} + 4\right)! - 4}{4}$

$204 = 4! + 4 + 4 \times 44$

$205 = 4! + \dfrac{4 + \left(\sqrt{4} + 4\right)!}{4}$

$206 = \left(\sqrt{4} + 4!\right) \times (4 + 4) - \sqrt{4}$

207 : not found.

$208 = 4 \times (4 + 4 + 44)$

$209 = \dfrac{\left(\dfrac{4! + 4}{4}\right)! - 4!}{4!}$

$210 = 4^4 - \left(\sqrt{4} + 44\right)$

$211 = \dfrac{4! + \left(\dfrac{4! + 4}{4}\right)!}{4!}$

$212 = \sqrt{4}^{4+4} - 44$

213 : not found.

$214 = \sqrt{4} + 4^4 - 44$

$215 = \sqrt{\sqrt{\sqrt{\sqrt{4} + 4}}}^{4!} - \dfrac{4}{4}$

$216 = 4 + 4^4 - 44$

$217 = \dfrac{4}{4} + \sqrt{\sqrt{\sqrt{\sqrt{4} + 4}}}^{4!}$

$218 = \dfrac{444}{\sqrt{4}} - 4$

219 : not found.

$220 = 44 + 4 \times 44$

$221 = \dfrac{444 - \sqrt{4}}{\sqrt{4}}$

$222 = \dfrac{444}{4 - \sqrt{4}}$

$223 = \dfrac{\sqrt{4} + 444}{\sqrt{4}}$

$224 = \dfrac{4 + 444}{\sqrt{4}}$

$225 = \sqrt{4 + \dfrac{44}{4}}^{4}$

$226 = 4 + \dfrac{444}{\sqrt{4}}$

227 : not found.

$228 = 4 + (4! + 4) \times (4 + 4)$

229 : not found.

$230 = \sqrt{4} + 4^4 - (4! + 4)$

$231 = 4^4 - \left(4! + \dfrac{4}{4}\right)$

$232 = 4 + 4^4 - (4! + 4)$

$233 = \dfrac{4}{4} + 4^4 - 4!$

$234 = \dfrac{4! + 444}{\sqrt{4}}$

235 : not found.

$236 = 44 + 4! \times (4 + 4)$

237 : not found.

$238 = 4^4 - \left(\sqrt{4} + 4 \times 4\right)$

$239 = \dfrac{4! \times (4! - 4) - \sqrt{4}}{\sqrt{4}}$

$240 = 4 \times (44 + 4 \times 4)$

$241 = \dfrac{\sqrt{4} + 4! \times (4! - 4)}{\sqrt{4}}$

$242 = \dfrac{44^{\sqrt{4}}}{4 + 4}$

$243 = 4^4 - \dfrac{\sqrt{4} + 4!}{\sqrt{4}}$

$244 = 4^4 - (4 + 4 + 4)$

$245 = 4^4 - \dfrac{44}{4}$

$246 = 4^4 - \left(\sqrt{4} + 4 + 4\right)$

247 : not found.

$248 = \sqrt{4}^{4+4} - (4 + 4)$

$249 = 4^4 - \dfrac{4! + 4}{4}$

$250 = \sqrt{4} + 4^4 - (4 + 4)$

$251 = 4^4 - \left(4 + \dfrac{4}{4}\right)$

$252 = 4 + 4^4 - (4 + 4)$

$253 = \dfrac{4}{4} + 4^4 - 4$

$254 = 4^4 - \dfrac{4 + 4}{4}$

$255 = \dfrac{4 \times 4^4 - 4}{4}$

$256 = 4 \times (4 + 4) \times (4 + 4)$

$257 = \dfrac{4 + 4 \times 4^4}{4}$

$258 = 4^4 + \dfrac{4 + 4}{4}$

$259 = 4 + 4^4 - \dfrac{4}{4}$

$260 = 4 + 4 + 4^4 - 4$

$261 = 4 + \dfrac{4}{4} + 4^4$

$262 = 4 + 4 + 4^4 - \sqrt{4}$

$263 = \dfrac{4! \times 44 - 4}{4}$

$264 = 44 \times \left(4 + 4 - \sqrt{4}\right)$

$265 = \dfrac{4 + 4! \times 44}{4}$

$266 = \sqrt{4} + 4 + 4 + 4^4$

$267 = 4^4 + \dfrac{44}{4}$

$268 = 4 + 4 + 4 + 4^4$

$269 = 4^4 + \dfrac{\sqrt{4} + 4!}{\sqrt{4}}$

$270 = 4^4 + 4 \times 4 - \sqrt{4}$

271 : not found.

$272 = 4 \times (4 + 4 \times 4 \times 4)$

273 : not found.

$274 = \sqrt{4} + 4 \times (4! + 44)$

$275 = \dfrac{4! \times 4! - \left(\sqrt{4} + 4!\right)}{\sqrt{4}}$

$276 = 4 + 4 \times (4! + 44)$

$277 = \dfrac{\sqrt{4} + 4! \times 4! - 4!}{\sqrt{4}}$

$278 = 4^4 + \dfrac{44}{\sqrt{4}}$

$279 = 4! + 4^4 - \dfrac{4}{4}$

$280 = 4 \times \left(\sqrt{4} + 4! + 44\right)$

$281 = 4! + \dfrac{4}{4} + 4^4$

$282 = 4! + 4 + 4^4 - \sqrt{4}$

$283 = \dfrac{4! \times 4! - \sqrt{4}}{\sqrt{4}} - 4$

$284 = 4! \times (4 + 4 + 4) - 4$

$285 = \dfrac{4! \times 4! - \left(\sqrt{4} + 4\right)}{\sqrt{4}}$

$286 = 4! \times (4 + 4 + 4) - \sqrt{4}$

$287 = \dfrac{\sqrt{4} \times 4! \times 4! - 4}{4}$

$288 = \left(\sqrt{4} + 4\right) \times (4 + 44)$

$289 = \left(\dfrac{4}{4} + 4 \times 4\right)^{\sqrt{4}}$

$290 = \sqrt{4} + 4! \times (4 + 4 + 4)$

$291 = \dfrac{\sqrt{4} + 4 + 4! \times 4!}{\sqrt{4}}$

$292 = 4 + 4! \times (4 + 4 + 4)$

$293 = 4 + \dfrac{\sqrt{4} + 4! \times 4!}{\sqrt{4}}$

$294 = 4 + \dfrac{4 + 4! \times 4!}{\sqrt{4}}$

295 : not found.

$296 = 44 + 4^4 - 4$

297 : not found.

$298 = 44 + 4^4 - \sqrt{4}$

$299 = \dfrac{4! + 4! \times 4! - \sqrt{4}}{\sqrt{4}}$

$300 = 44 + \sqrt{4}^{4+4}$

$301 = \dfrac{\sqrt{4} + 4! + 4! \times 4!}{\sqrt{4}}$

$302 = \sqrt{4} + 44 + 4^4$

303 : not found.

$304 = 4 + 44 + 4^4$

305 : not found.

$306 = \sqrt{4} + 4! + 4! + 4^4$

307 : not found.

$308 = 44 \times \dfrac{4! + 4}{4}$

309 : not found.

$310 = \dfrac{4! \times 4! + 44}{\sqrt{4}}$

$311 = \dfrac{4! \times \left(\sqrt{4} + 4!\right) - \sqrt{4}}{\sqrt{4}}$

$312 = \left(\sqrt{4} + 4!\right) \times (4 + 4 + 4)$

$313 = \dfrac{\sqrt{4} + 4! \times \left(\sqrt{4} + 4!\right)}{\sqrt{4}}$

$314 = \dfrac{4 + 4! \times \left(\sqrt{4} + 4!\right)}{\sqrt{4}}$

$315 = \sqrt{4} \times \dfrac{(4 + 4)!}{4^4}$

$316 = 4 \times 4 \times (4! - 4) - 4$

317 : not found.

$318 = 4 \times 4 \times (4! - 4) - \sqrt{4}$

$319 = \sqrt{\sqrt{\sqrt{\dfrac{4! + 4}{4}}}}^{4!} - 4!$

$320 = (4 + 4) \times (44 - 4)$

321 : not found.

$322 = \sqrt{4} + 4 \times 4 \times (4! - 4)$

$323 = \dfrac{\left(\sqrt{4} + 4\right)^4 - 4}{4}$

$324 = 4! + 44 + 4^4$

$325 = \dfrac{4 + \left(\sqrt{4} + 4\right)^4}{4}$

$326 = \sqrt{4} + \dfrac{\left(\sqrt{4} + 4\right)^4}{4}$

327 : not found.

$328 = 44 \times (4 + 4) - 4!$

329 : not found.

$330 = \dfrac{4! + \left(\sqrt{4} + 4\right)^4}{4}$

331 : not found.

$332 = 4! \times \left(4 \times 4 - \sqrt{4}\right) - 4$

333 : not found.

$$334 = 4! \times \left(4 \times 4 - \sqrt{4}\right) - \sqrt{4}$$

$$335 = \frac{4! \times (4! + 4) - \sqrt{4}}{\sqrt{4}}$$

$$336 = (4 + 4) \times \left(44 - \sqrt{4}\right)$$

$$337 = \frac{\sqrt{4} + 4! \times (4! + 4)}{\sqrt{4}}$$

$$338 = \frac{\left(\sqrt{4} + 4\right)! - 44}{\sqrt{4}}$$

$$339 = \frac{\sqrt{4} + \left(\sqrt{4} + 4!\right)^{\sqrt{4}}}{\sqrt{4}}$$

$$340 = 4! \times 4 \times 4 - 44$$

$$341 = \sqrt{4} \times \frac{\sqrt{\sqrt{4}}^{4!} - 4}{4!}$$

$$342 = 4 + \frac{\left(\sqrt{4} + 4!\right)^{\sqrt{4}}}{\sqrt{4}}$$

$$343 = \sqrt{\frac{4! + 4}{4}}^{\sqrt{4}+4}$$

$$344 = \sqrt{4} \times (4 \times 44 - 4)$$

$$345 = \sqrt{4} + \sqrt{\sqrt{\sqrt{\frac{4! + 4}{4}}}}^{4!}$$

$$346 = \frac{\left(\sqrt{4} + 4\right)! - (4! + 4)}{\sqrt{4}}$$

$$347 = \frac{\left(\sqrt{4} + 4\right)! - \left(\sqrt{4} + 4!\right)}{\sqrt{4}}$$

$$348 = 44 \times (4 + 4) - 4$$

$$349 = \frac{\sqrt{4} + \left(\sqrt{4} + 4\right)! - 4!}{\sqrt{4}}$$

$$350 = 44 \times (4 + 4) - \sqrt{4}$$

351 : not found.

$$352 = 4 \times (44 + 44)$$

353 : not found.

$$354 = \sqrt{4} + 44 \times (4 + 4)$$

$$355 = \frac{\left(\sqrt{4} + 4\right)! - \sqrt{4}}{\sqrt{4}} - 4$$

$$356 = 4 + 44 \times (4 + 4)$$

$$357 = \frac{\left(\sqrt{4} + 4\right)! - \left(\sqrt{4} + 4\right)}{\sqrt{4}}$$

$$358 = \frac{4 + \left(\sqrt{4} + 4\right)!}{\sqrt{4}} - 4$$

$$359 = \frac{\sqrt{4} \times \left(\sqrt{4}+4\right)! - 4}{4}$$

$$360 = \sqrt{4} \times (4 + 4 \times 44)$$

$$361 = \frac{4 + \sqrt{4} \times \left(\sqrt{4}+4\right)!}{4}$$

$$362 = 4 + \frac{\left(\sqrt{4}+4\right)! - 4}{\sqrt{4}}$$

$$363 = \frac{\sqrt{4} + 4 + \left(\sqrt{4}+4\right)!}{\sqrt{4}}$$

$$364 = 4 \times (4! \times 4 - 4) - 4$$

$$365 = 4 + \frac{\sqrt{4} + \left(\sqrt{4}+4\right)!}{\sqrt{4}}$$

$$366 = 4 \times (4! \times 4 - 4) - \sqrt{4}$$

$$367 = 4! + \sqrt{\sqrt{\sqrt{\frac{4!+4}{4}}}}^{4!}$$

$$368 = (4+4) \times \left(\sqrt{4} + 44\right)$$

369 : not found.

$$370 = \sqrt{4} + 4 \times (4! \times 4 - 4)$$

$$371 = \frac{4! + \left(\sqrt{4}+4\right)! - \sqrt{4}}{\sqrt{4}}$$

$$372 = 4 + 4 \times (4! \times 4 - 4)$$

$$373 = \frac{\sqrt{4} + 4! + \left(\sqrt{4}+4\right)!}{\sqrt{4}}$$

$$374 = 4 \times \left(4! \times 4 - \sqrt{4}\right) - \sqrt{4}$$

375 : not found.

$$376 = 4! + 44 \times (4+4)$$

377 : not found.

$$378 = 4! \times 4 \times 4 - \left(\sqrt{4} + 4\right)$$

379 : not found.

$$380 = 4 \times \left(4! \times 4 - \frac{4}{4}\right)$$

$$381 = 4! \times \left(4 \times 4 - \sqrt{\sqrt{\sqrt{\sqrt{4}}}}^{-4!}\right)$$

$$382 = \sqrt{4} + 4! \times 4 \times 4 - 4$$

$$383 = 4! \times 4 \times 4 - \frac{4}{4}$$

$$384 = (4+4) \times (4+44)$$

$$385 = \frac{4}{4} + 4! \times 4 \times 4$$

$386 = 4 + 4! \times 4 \times 4 - \sqrt{4}$

$387 = 4! \times \left(\sqrt{\sqrt{\sqrt{\sqrt{4}}}}^{-4!} + 4 \times 4 \right)$

$388 = 4 \times \left(\frac{4}{4} + 4! \times 4 \right)$

389 : not found.

$390 = \sqrt{4} + 4 + 4! \times 4 \times 4$

$391 = \frac{(4! + 4)^{\sqrt{4}} - \sqrt{4}}{\sqrt{4}}$

$392 = 4 + 4 + 4! \times 4 \times 4$

$393 = \frac{\sqrt{4} + (4! + 4)^{\sqrt{4}}}{\sqrt{4}}$

$394 = \sqrt{4} + 4 \times \left(\sqrt{4} + 4! \times 4 \right)$

395 : not found.

$396 = 444 - (4! + 4!)$

397 : not found.

$398 = 4 \times (4 + 4! \times 4) - \sqrt{4}$

$399 = \sqrt{4! - 4}^4 - \frac{4}{4}$

$400 = 444 - 44$

$401 = \frac{4}{4} + \sqrt{4! - 4}^4$

$402 = \sqrt{4} + 4 \times (4 + 4! \times 4)$

403 : not found.

$404 = 4 + 4 \times (4 + 4! \times 4)$

405 : not found.

$406 = \sqrt{4} + 4 + \sqrt{4! - 4}^4$

407 : not found.

$408 = \left(\sqrt{4} + 4 \right) \times (4! + 44)$

409 : not found.

$410 = \sqrt{4} + 4! + 4! \times 4 \times 4$

411 : not found.

$412 = 4 \times 4 \times \left(\sqrt{4} + 4! \right) - 4$

413 : not found.

$414 = 4 \times 4 \times \left(\sqrt{4} + 4! \right) - \sqrt{4}$

415 : not found.

$416 = 444 - (4! + 4)$

417 : not found.

$418 = 444 - \left(\sqrt{4} + 4!\right)$

$419 = \dfrac{\dfrac{(4+4)!}{4!} - 4}{4}$

$420 = 444 - \sqrt{4 \times 4}!$

$421 = \dfrac{4 + \dfrac{(4+4)!}{4!}}{4}$

$422 = \sqrt{4} + 444 - 4!$

423 : not found.

$424 = 4 + 444 - 4!$

425 : not found.

$426 = \dfrac{4! + \dfrac{(4+4)!}{4!}}{4}$

427 : not found.

$428 = 444 - 4 \times 4$

429 : not found.

$430 = 4! \times \left(\sqrt{4} + 4 \times 4\right) - \sqrt{4}$

$431 = \dfrac{\sqrt{\sqrt{\sqrt{\dfrac{4!}{\sqrt{4}}}}}^{4!} - 4}{4}$

$432 = 4^4 + 4 \times 44$

$433 = \dfrac{4 + \sqrt{\sqrt{\sqrt{\dfrac{4!}{\sqrt{4}}}}}^{4!}}{4}$

$434 = \sqrt{4} + 4! \times \left(\sqrt{4} + 4 \times 4\right)$

435 : not found.

$436 = 444 - (4 + 4)$

437 : not found.

$438 = 444 - \left(\sqrt{4} + 4\right)$

439 : not found.

$440 = 44 \times \left(\sqrt{4} + 4 + 4\right)$

$441 = \dfrac{\sqrt{44 - \sqrt{4}}^4}{4}$

$442 = \sqrt{4} + 444 - 4$

$443 = 444 - \dfrac{4}{4}$

$444 = 4 + 444 - 4$

$445 = \dfrac{4}{4} + 444$

$446 = 4 + 444 - \sqrt{4}$

447 : not found.

$448 = \sqrt{4 \times 4} + 444$

449 : not found.

$450 = \sqrt{4} + 4 + 444$

451 : not found.

$452 = 4 + 4 + 444$

453 : not found.

$454 = 4! \times (4! - 4) - \left(\sqrt{4} + 4!\right)$

455 : not found.

$456 = \dfrac{4!}{\sqrt{4}} + 444$

457 : not found.

$458 = \sqrt{4} + 4! \times (4! - 4) - 4!$

459 : not found.

$460 = 4 \times 4 + 444$

461 : not found.

$462 = \left(\sqrt{4} + 4\right)! - \left(\sqrt{4} + 4^4\right)$

463 : not found.

$464 = 4! + 444 - 4$

465 : not found.

$466 = 4! + 444 - \sqrt{4}$

467 : not found.

$468 = \sqrt{4 \times 4}! + 444$

469 : not found.

$470 = \sqrt{4} + 4! + 444$

471 : not found.

$472 = 4! + 4 + 444$

473 : not found.

$474 = 4! \times (4! - 4) - \left(\sqrt{4} + 4\right)$

$475 = (4! - 4) \times \left(4! - \sqrt{\sqrt{4}}^{-4}\right)$

$476 = 4! \times (4 + 4 \times 4) - 4$

$477 = 4! \times \left(4! - \left(4 + \sqrt{\sqrt{\sqrt{\sqrt{4}}}}^{-4!}\right)\right)$

$478 = 4! \times (4 + 4 \times 4) - \sqrt{4}$

$479 = 4! \times (4! - 4) - \dfrac{4}{4}$

$480 = \dfrac{44^{\sqrt{4}}}{4} - 4$

$481 = \dfrac{4}{4} + 4! \times (4! - 4)$

$482 = \sqrt{4} + 4! \times (4 + 4 \times 4)$

$483 = \dfrac{44^{\sqrt{4}} - 4}{4}$

$484 = 44 \times \dfrac{44}{4}$

$485 = \dfrac{4 + 44^{\sqrt{4}}}{4}$

$486 = \sqrt{4} + \dfrac{44^{\sqrt{4}}}{4}$

487 : not found.

$488 = 44 + 444$

489 : not found.

$490 = \dfrac{4! + 44^{\sqrt{4}}}{4}$

491 : not found.

$492 = 4! + 4! + 444$

493 : not found.

494 : not found.

495 : not found.

$496 = 4 \times \left(4 + \left(4 + \dfrac{4}{4}\right)!\right)$

497 : not found.

498 : not found.

499 : not found.

$500 = \sqrt{4} \times \left(4^4 - 4\right) - 4$

501 : not found.

$502 = \sqrt{4} \times \left(4^4 - 4\right) - \sqrt{4}$

503 : not found.

$504 = \sqrt{4} \times 4^4 - (4 + 4)$

$505 = \left(4! - \dfrac{4}{4}\right)^{\sqrt{4}} - 4!$

$506 = \sqrt{4} + \sqrt{4} \times \left(4^4 - 4\right)$

507 : not found.

$508 = 4^4 + 4^4 - 4$

$509 = \dfrac{\sqrt{\sqrt{4}}^{4!} - 4!}{4 + 4}$

$510 = \sqrt{4} \times \left(4^4 - \dfrac{4}{4}\right)$

$511 = \sqrt{4} \times 4^4 - \dfrac{4}{4}$

$512 = 4 \times 4 \times 4 \times (4 + 4)$

$513 = \dfrac{4}{4} + \sqrt{4} \times 4^4$

$514 = \sqrt{4} + 4^4 + 4^4$

$515 = \dfrac{4! + \sqrt{\sqrt{4}}^{4!}}{4 + 4}$

$516 = 4 + 4^4 + 4^4$

$517 = \left(\sqrt{4} - 4!\right) \times \left(\dfrac{\sqrt{4}}{4} - 4!\right)$

$518 = \sqrt{4} + 4 + \sqrt{4} \times 4^4$

519 : not found.

$520 = 4 + 4 + \sqrt{4} \times 4^4$

521 : not found.

$522 = \sqrt{4} + \sqrt{4} \times \left(4 + 4^4\right)$

523 : not found.

$524 = 4 + \sqrt{4} \times \left(4 + 4^4\right)$

$525 = \left(4! - \dfrac{4}{4}\right)^{\sqrt{4}} - 4$

$526 = \dfrac{4! \times 44 - 4}{\sqrt{4}}$

$527 = \dfrac{4! \times 44 - \sqrt{4}}{\sqrt{4}}$

$528 = 44 \times (4 + 4 + 4)$

$529 = \dfrac{\left(\sqrt{4} + 44\right)^{\sqrt{4}}}{4}$

$530 = \dfrac{4 + 4! \times 44}{\sqrt{4}}$

$531 = \sqrt{4} + \left(4! - \dfrac{4}{4}\right)^{\sqrt{4}}$

$532 = 4 + 4! \times \dfrac{44}{\sqrt{4}}$

$533 = 4 + \left(4! - \dfrac{4}{4}\right)^{\sqrt{4}}$

$534 = \sqrt{4} + 4! \times 4! - 44$

535 : not found.

$536 = 4 + 4! \times 4! - 44$

537 : not found.

$538 = \sqrt{4} + 4! + \sqrt{4} \times 4^4$

$539 = \left(4! - \sqrt{4}\right) \times \left(4! + \dfrac{\sqrt{4}}{4}\right)$

$540 = 4! \times 4 + 444$

541 : not found.

542 : not found.

543 : not found.

$544 = (4 + 4) \times (4! + 44)$

545 : not found.

$546 = 4! \times 4! - \left(\sqrt{4} + 4! + 4\right)$

547 : not found.

$548 = 4! \times \left(4! - \dfrac{4}{4}\right) - 4$

$549 = 4! \times \left(4! - \sqrt{\sqrt{\sqrt{\sqrt{4}}}}^{-4!}\right) - 4!$

$550 = \left(4! - \sqrt{4}\right) \times \left(4! + \dfrac{4}{4}\right)$

$551 = 4! \times 4! - \left(4! + \dfrac{4}{4}\right)$

$552 = \left(\sqrt{4} + 4\right) \times (4! \times 4 - 4)$

$553 = \dfrac{4}{4} + 4! \times 4! - 4!$

$554 = 4! \times 4! - \dfrac{44}{\sqrt{4}}$

$555 = 4! \times \left(4! + \sqrt{\sqrt{\sqrt{\sqrt{4}}}}^{-4!}\right) - 4!$

$556 = 44 + \sqrt{4} \times 4^4$

557 : not found.

$558 = (4! + 4) \times (4! - 4) - \sqrt{4}$

559 : not found.

$560 = 4 \times (44 + 4! \times 4)$

561 : not found.

$562 = \sqrt{4} + (4! + 4) \times (4! - 4)$

$563 = 4! \times 4! - \dfrac{\sqrt{4} + 4!}{\sqrt{4}}$

$564 = 4 + (4! + 4) \times (4! - 4)$

$565 = 4! \times 4! - \dfrac{44}{4}$

$566 = 4! \times 4! - \left(\sqrt{4} + 4 + 4\right)$

$$567 = 4! \times \left(4! - \frac{4!}{\sqrt{\sqrt{\sqrt{4}}}^{4!}} \right)$$

$$568 = \sqrt{4} \times \left(4! + 4 + 4^4 \right)$$

$$569 = 4! \times 4! - \frac{4! + 4}{4}$$

$$570 = \sqrt{4} + 4! \times 4! - (4 + 4)$$

$$571 = 4! \times 4! - \left(4 + \frac{4}{4} \right)$$

$$572 = 4 + 4! \times 4! - (4 + 4)$$

$$573 = \frac{4}{4} + 4! \times 4! - 4$$

$$574 = 4! \times 4! - \frac{4 + 4}{4}$$

$$575 = 4!^{4-\sqrt{4}} - \frac{4}{4}$$

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

$$577 = \frac{4}{4} + 4!^{4-\sqrt{4}}$$

$$578 = 4! \times 4! + \frac{4 + 4}{4}$$

$$579 = 4 + 4! \times 4! - \frac{4}{4}$$

$$580 = 4 + 4! \times 4 \times \left(\sqrt{4} + 4 \right)$$

$$581 = 4 + \frac{4}{4} + 4! \times 4!$$

$$582 = 4 + 4 + 4! \times 4! - \sqrt{4}$$

$$583 = 4! \times 4! + \frac{4! + 4}{4}$$

$$584 = 4 + 4 + 4!^{4-\sqrt{4}}$$

$$585 = 4! \times \left(4! + \frac{4!}{\sqrt{\sqrt{\sqrt{4}}}^{4!}} \right)$$

$$586 = \sqrt{4} + 4 + 4 + 4! \times 4!$$

$$587 = 4! \times 4! + \frac{44}{4}$$

$$588 = 4 + 4 + 4 + 4! \times 4!$$

$$589 = 4! \times 4! + \frac{\sqrt{4} + 4!}{\sqrt{4}}$$

$$590 = 4! \times 4! + 4 \times 4 - \sqrt{4}$$

591 : not found.

$$592 = 4 \times \left(4 + 4! \times \left(\sqrt{4} + 4 \right) \right)$$

593 : not found.

$$594 = \sqrt{4} + 4! \times 4! + 4 \times 4$$

595 : not found.

$596 = 4 + 4! \times 4! + 4 \times 4$

$$597 = 4! + 4! \times \left(4! - \sqrt{\sqrt{\sqrt{\sqrt{4}}}}^{-4!} \right)$$

$$598 = 4! \times 4! + \frac{44}{\sqrt{4}}$$

$$599 = 4! + 4! \times 4! - \frac{4}{4}$$

$$600 = \sqrt{4} \times \left(44 + 4^4 \right)$$

$$601 = \left(4 + \frac{4}{4} \right)^4 - 4!$$

$$602 = \sqrt{4} + 4! \times \left(4! + \frac{4}{4} \right)$$

$$603 = 4! + 4! \times \left(4! + \sqrt{\sqrt{\sqrt{\sqrt{4}}}}^{-4!} \right)$$

$$604 = 4 + 4! \times \left(4! + \frac{4}{4} \right)$$

605 : not found.

$606 = \sqrt{4} + 4! + 4 + 4! \times 4!$

607 : not found.

$608 = 4 \times (4 \times 44 - 4!)$

609 : not found.

610 : not found.

$$611 = \left(\sqrt{4} + 4! \right) \times \left(4! - \frac{\sqrt{4}}{4} \right)$$

$$612 = (4! + 4) \times \left(4! - \sqrt{4} \right) - 4$$

613 : not found.

$$614 = (4! + 4) \times \left(4! - \sqrt{4} \right) - \sqrt{4}$$

615 : not found.

$$616 = 44 \times \left(4 \times 4 - \sqrt{4} \right)$$

617 : not found.

$618 = 4! \times 4! + 44 - \sqrt{4}$

619 : not found.

$620 = 44 + 4!^{4 - \sqrt{4}}$

$$621 = \left(4 + \frac{4}{4} \right)^4 - 4$$

$622 = \sqrt{4} + 4! \times 4! + 44$

$623 = \left(4 + \frac{4}{4}\right)^4 - \sqrt{4}$

$624 = 4 + 4! \times 4! + 44$

$625 = \left(\frac{4 + 4 \times 4}{4}\right)^4$

$626 = \sqrt{4} + 4! \times \left(4! + 4 - \sqrt{4}\right)$

$627 = \sqrt{4} + \left(4 + \frac{4}{4}\right)^4$

$628 = 4! \times (4! + 4) - 44$

$629 = 4 + \left(4 + \frac{4}{4}\right)^4$

$630 = \frac{(4+4)!}{4 \times 4 \times 4}$

631 : not found.

$632 = \left(\sqrt{4} + 4\right)! - \sqrt{4} \times 44$

633 : not found.

$634 = 4 + \frac{(4+4)!}{\sqrt{\sqrt{\sqrt{4}}}^{4!}}$

635 : not found.

$636 = \frac{\left(\sqrt{4} + 4\right)^4 - 4!}{\sqrt{4}}$

$637 = \left(\sqrt{4} + 4!\right) \times \left(4! + \frac{\sqrt{4}}{4}\right)$

$638 = \sqrt{\sqrt{\sqrt{4}}}^{4!} + 4! \times 4! - \sqrt{4}$

639 : not found.

$640 = 4 \times 4 \times (44 - 4)$

641 : not found.

$642 = \sqrt{4} + \sqrt{\sqrt{\sqrt{4}}}^{4!} + 4! \times 4!$

643 : not found.

$644 = \frac{\left(\sqrt{4} + 4\right)^4}{\sqrt{4}} - 4$

645 : not found.

$646 = \frac{\left(\sqrt{4} + 4\right)^4 - 4}{\sqrt{4}}$

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

$648 = \frac{\left(\sqrt{4} + 4\right)^4}{4 - \sqrt{4}}$

$649 = 4! + \left(4 + \frac{4}{4}\right)^4$

$650 = \frac{4 + \left(\sqrt{4} + 4\right)^4}{\sqrt{4}}$

651 : not found.

$652 = 4 + \frac{\left(\sqrt{4} + 4\right)^4}{\sqrt{4}}$

653 : not found.

$654 = \sqrt{4} + \left(\sqrt{4} + 4!\right)^{\sqrt{4}} - 4!$

655 : not found.

$656 = \left(\sqrt{4} + 4\right)! - 4 \times 4 \times 4$

657 : not found.

$658 = (4! + 4) \times \left(4! - \frac{\sqrt{4}}{4}\right)$

659 : not found.

$660 = 4! \times \left(4! + 4 - \frac{\sqrt{4}}{4}\right)$

661 : not found.

662 : not found.

663 : not found.

$664 = 4! \times (4! + 4) - (4 + 4)$

$665 = (4! + 4) \times \left(4! - \sqrt{\sqrt{4}}^{-4}\right)$

$666 = 4! \times (4! + 4) - \left(\sqrt{4} + 4\right)$

667 : not found.

$668 = 44 + 4! \times \left(\sqrt{4} + 4!\right)$

$669 = 4! \times \left(4! + 4 - \sqrt{\sqrt{\sqrt{\sqrt{4}}}}^{-4!}\right)$

$670 = \sqrt{4} + 4! \times (4! + 4) - 4$

$671 = 4! \times (4! + 4) - \frac{4}{4}$

$672 = 4 \times 4 \times \left(44 - \sqrt{4}\right)$

$673 = \frac{4}{4} + 4! \times (4! + 4)$

$674 = \left(\sqrt{4} + 4\right)! - \left(\sqrt{4} + 44\right)$

$675 = \left(\sqrt{4} + 4!\right)^{\sqrt{4}} - \frac{4}{4}$

$676 = \left(4 + 4 - \sqrt{4}\right)! - 44$

$677 = \dfrac{4}{4} + \left(\sqrt{4} + 4!\right)^{\sqrt{4}}$

$678 = \sqrt{4} + \left(\sqrt{4} + 4\right)! - 44$

$679 = (4! + 4) \times \left(4! + \sqrt{\sqrt{4}}^{-4}\right)$

$680 = 4 + \left(\sqrt{4} + 4\right)! - 44$

681 : not found.

$682 = \sqrt{4} + 4 + \left(\sqrt{4} + 4!\right)^{\sqrt{4}}$

$683 = \dfrac{\sqrt{4} + \sqrt{\sqrt{4}}^{4!}}{\sqrt{4} + 4}$

$684 = 4 + 4 + \left(\sqrt{4} + 4!\right)^{\sqrt{4}}$

685 : not found.

$686 = (4! + 4) \times \left(4! + \dfrac{\sqrt{4}}{4}\right)$

687 : not found.

$688 = 4 \times (4 \times 44 - 4)$

689 : not found.

$690 = \left(\sqrt{4} + 4\right)! - \left(\sqrt{4} + 4! + 4\right)$

691 : not found.

$692 = \left(4 + 4 - \sqrt{4}\right)! - (4! + 4)$

693 : not found.

$694 = \sqrt{4} + \left(\sqrt{4} + 4\right)! - (4! + 4)$

$695 = \left(\sqrt{4} + 4\right)! - \left(4! + \dfrac{4}{4}\right)$

$696 = 4 \times \left(4 \times 44 - \sqrt{4}\right)$

$697 = \dfrac{4}{4} + \left(\sqrt{4} + 4\right)! - 4!$

$698 = \left(\sqrt{4} + 4\right)! - \dfrac{44}{\sqrt{4}}$

699 : not found.

$700 = 4^4 + 444$

701 : not found.

$702 = 4 \times 4 \times 44 - \sqrt{4}$

703 : not found.

$704 = \sqrt{4} \times 44 \times (4 + 4)$

$705 = \sqrt{\sqrt{\sqrt{4 - \frac{4}{4}}}}^{4!} - 4!$

$706 = \sqrt{4} + 4 \times 4 \times 44$

$707 = \left(\sqrt{4} + 4\right)! - \frac{\sqrt{4} + 4!}{\sqrt{4}}$

$708 = 4 + 4 \times 4 \times 44$

$709 = \left(\sqrt{4} + 4\right)! - \frac{44}{4}$

$710 = \left(\sqrt{4} + 4\right)! - \left(\sqrt{4} + 4 + 4\right)$

711 : not found.

$712 = 4 \times \left(\sqrt{4} + 4 \times 44\right)$

$713 = \left(\sqrt{4} + 4\right)! - \frac{4! + 4}{4}$

$714 = \sqrt{4} + \left(\sqrt{4} + 4\right)! - (4 + 4)$

$715 = \left(\sqrt{4} + 4\right)! - \left(4 + \frac{4}{4}\right)$

$716 = \left(4 + \frac{4 + 4}{4}\right)! - 4$

$717 = \frac{4}{4} + \left(\sqrt{4} + 4\right)! - 4$

$718 = \left(\sqrt{4} + 4\right)! - \frac{4 + 4}{4}$

$719 = \left(4 + 4 - \sqrt{4}\right)! - \frac{4}{4}$

$720 = 4 \times (4 + 4 \times 44)$

$721 = \frac{4}{4} + \left(4 + 4 - \sqrt{4}\right)!$

$722 = \sqrt{4} + \left(4 + \frac{4 + 4}{4}\right)!$

$723 = 4 + \left(\sqrt{4} + 4\right)! - \frac{4}{4}$

$724 = 4 + \left(4 + \frac{4 + 4}{4}\right)!$

$725 = 4 + \frac{4}{4} + \left(\sqrt{4} + 4\right)!$

$726 = \sqrt{4} + 4 + \left(4 + 4 - \sqrt{4}\right)!$

$727 = \left(\sqrt{4} + 4\right)! + \frac{4! + 4}{4}$

$728 = 4! + 4 \times 4 \times 44$

$729 = \left(4 - \frac{4}{4}\right)^{\sqrt{4}+4}$

$730 = \sqrt{4} + 4 + 4 + \left(\sqrt{4} + 4\right)!$

$731 = \left(\sqrt{4} + 4\right)! + \frac{44}{4}$

$732 = 4 + 4 + 4 + \left(\sqrt{4} + 4\right)!$

$733 = 4 + \sqrt{\sqrt{4 - \frac{4}{4}}}^{4!}$

$734 = 4 \times 4 + \left(\sqrt{4} + 4\right)! - \sqrt{4}$

735 : not found.

$736 = 4 \times 4 \times \left(\sqrt{4} + 44\right)$

737 : not found.

$738 = \sqrt{4} + 4 \times 4 + \left(\sqrt{4} + 4\right)!$

739 : not found.

$740 = 4 + 4 \times 4 + \left(\sqrt{4} + 4\right)!$

741 : not found.

$742 = \left(\sqrt{4} + 4\right)! + \frac{44}{\sqrt{4}}$

$743 = 4! + \left(\sqrt{4} + 4\right)! - \frac{4}{4}$

$744 = 4! + \left(4 + \frac{4 + 4}{4}\right)!$

$745 = 4! + \frac{4}{4} + \left(\sqrt{4} + 4\right)!$

$746 = \sqrt{4} + 4! + \left(4 + 4 - \sqrt{4}\right)!$

747 : not found.

$748 = 4! + 4 + \left(4 + 4 - \sqrt{4}\right)!$

749 : not found.

$750 = \sqrt{4} + 4! + 4 + \left(\sqrt{4} + 4\right)!$

751 : not found.

$752 = 4 \times (4! \times (4 + 4) - 4)$

$753 = 4! + \sqrt{\sqrt{4 - \frac{4}{4}}}^{4!}$

754 : not found.

755 : not found.

$756 = (4! + 4)^{\sqrt{4}} - (4! + 4)$

757 : not found.

$758 = (4! + 4)^{\sqrt{4}} - \left(\sqrt{4} + 4!\right)$

759 : not found.

$760 = 44 + \left(\sqrt{4} + 4\right)! - 4$

761 : not found.

$762 = 44 + \left(\sqrt{4} + 4\right)! - \sqrt{4}$

763 : not found.

$764 = 44 + \left(4 + 4 - \sqrt{4}\right)!$

765 : not found.

$766 = \sqrt{4} + 44 + \left(\sqrt{4} + 4\right)!$

$767 = \dfrac{4! \times \sqrt{\sqrt{\sqrt{4}}}^{4!} - \sqrt{4}}{\sqrt{4}}$

$768 = 4 \times 4 \times (4 + 44)$

$769 = \dfrac{\sqrt{4} + 4! \times \sqrt{\sqrt{\sqrt{4}}}^{4!}}{\sqrt{4}}$

$770 = \sqrt{4} + 4! \times 4 \times (4 + 4)$

771 : not found.

$772 = 4 + 4! \times 4 \times (4 + 4)$

773 : not found.

774 : not found.

775 : not found.

$776 = 4 \times \left(\sqrt{4} + 4! \times (4 + 4)\right)$

777 : not found.

$778 = (4! + 4)^{\sqrt{4}} - \left(\sqrt{4} + 4\right)$

779 : not found.

$780 = (4! + 4) \times (4! + 4) - 4$

781 : not found.

$782 = (4! + 4) \times (4! + 4) - \sqrt{4}$

$783 = (4! + 4)^{\sqrt{4}} - \dfrac{4}{4}$

$784 = 4 \times (4 + 4! \times (4 + 4))$

$785 = \dfrac{4}{4} + (4! + 4)^{\sqrt{4}}$

$786 = \sqrt{4} + (4! + 4) \times (4! + 4)$

787 : not found.

$788 = 4 + (4! + 4) \times (4! + 4)$

789 : not found.

$790 = \sqrt{4} + 4 + (4! + 4)^{\sqrt{4}}$

791 : not found.

$792 = 44 \times \left(\sqrt{4} + 4 \times 4\right)$

793 : not found.

794 : not found.

795 : not found.

$796 = \sqrt{4} \times \sqrt{4! - 4}^{4} - 4$

797 : not found.

$798 = \sqrt{4} \times \sqrt{4! - 4}^{4} - \sqrt{4}$

799 : not found.

$800 = 4 \times (4! + 4 \times 44)$

801 : not found.

$802 = \sqrt{4} + \sqrt{4} \times \sqrt{4! - 4}^{4}$

803 : not found.

$804 = 4! + (4! + 4)^{\sqrt{4}} - 4$

805 : not found.

$806 = 4! + (4! + 4)^{\sqrt{4}} - \sqrt{4}$

807 : not found.

$808 = \left(\sqrt{4} + 4\right)! + \sqrt{4} \times 44$

809 : not found.

$810 = \sqrt{4} + 4! + (4! + 4)^{\sqrt{4}}$

811 : not found.

$812 = 4! \times 4 + \left(\sqrt{4} + 4\right)! - 4$

813 : not found.

$814 = 4! \times 4 + \left(\sqrt{4} + 4\right)! - \sqrt{4}$

815 : not found.

$816 = 4! \times \left(\sqrt{4} + 4 \times (4 + 4)\right)$

817 : not found.

$818 = \sqrt{4} + 4! \times 4 + \left(\sqrt{4} + 4\right)!$

819 : not found.

$820 = 4 + 4! \times 4 + \left(\sqrt{4} + 4\right)!$

821 : not found.

822 : not found.

823 : not found.

$824 = \left(\sqrt{4} + 4\right)! + 4 \times \left(\sqrt{4} + 4!\right)$

825 : not found.

826 : not found.

827 : not found.

$828 = 44 + (4! + 4)^{\sqrt{4}}$

829 : not found.

$830 = 4! \times 4! + 4^4 - \sqrt{4}$

831 : not found.

$832 = 4 \times \left(\sqrt{4} + 4!\right) \times (4 + 4)$

833 : not found.

$834 = \sqrt{4} + 4! \times 4! + 4^4$

835 : not found.

$836 = 4 + 4! \times 4! + 4^4$

837 : not found.

$$838 = \frac{\frac{(4+4)!}{4!} - 4}{\sqrt{4}}$$

$$839 = \frac{\frac{(4+4)!}{4!} - \sqrt{4}}{\sqrt{4}}$$

$$840 = \frac{(4+4)!}{4+44}$$

$$841 = \sqrt{4! + 4 + \frac{4}{4}}^4$$

$$842 = \frac{4 + \frac{(4+4)!}{4!}}{\sqrt{4}}$$

843 : not found.

$$844 = 4 + \frac{(4+4)!}{4! + 4!}$$

845 : not found.

846 : not found.

847 : not found.

$848 = 4 \times \left(4^4 - 44\right)$

849 : not found.

850 : not found.

851 : not found.

$$852 = \frac{4! + \frac{(4+4)!}{4!}}{\sqrt{4}}$$

853 : not found.

854 : not found.

855 : not found.

$856 = 44 \times (4! - 4) - 4!$

857 : not found.

858 : not found.

859 : not found.

$860 = 4! \times \sqrt{\sqrt{4} + 4}^4 - 4$

861 : not found.

$862 = 4! \times \sqrt{\sqrt{4} + 4}^4 - \sqrt{4}$

$$863 = \frac{\left(\frac{4!}{\sqrt{4}}\right)^4 - 4!}{4!}$$

$$864 = 4! \times (44 - (4 + 4))$$

$$865 = \frac{4! + \left(\frac{4!}{\sqrt{4}}\right)^4}{4!}$$

$$866 = \sqrt{4} + 4! \times \sqrt{\sqrt{4} + 4}^4$$

867 : not found.

$$868 = 4 + 4! \times \sqrt{\sqrt{4} + 4}^4$$

869 : not found.

870 : not found.

871 : not found.

$$872 = 4 \times \left(\sqrt{4} + \sqrt{\sqrt{\sqrt{\sqrt{4} + 4}}}^{4!}\right)$$

873 : not found.

874 : not found.

875 : not found.

$$876 = 44 \times (4! - 4) - 4$$

877 : not found.

$$878 = 44 \times (4! - 4) - \sqrt{4}$$

879 : not found.

$$880 = 44 \times (4 + 4 \times 4)$$

881 : not found.

$$882 = \sqrt{4} + 44 \times (4! - 4)$$

883 : not found.

$$884 = \sqrt{4} \times 444 - 4$$

885 : not found.

$$886 = \sqrt{4} \times 444 - \sqrt{4}$$

887 : not found.

$$888 = \left(4 - \sqrt{4}\right) \times 444$$

889 : not found.

$$890 = \sqrt{4} + \sqrt{4} \times 444$$

891 : not found.

$$892 = 4 + \sqrt{4} \times 444$$

893 : not found.

894 : not found.

895 : not found.

$896 = \sqrt{4} \times (4 + 444)$

897 : not found.

$898 = \sqrt{\sqrt{4} + 4! + 4}^{4} - \sqrt{4}$

899 : not found.

$900 = \sqrt{4 \times (4 + 4) - \sqrt{4}}^{4}$

901 : not found.

$902 = \sqrt{4} + \sqrt{\sqrt{4} + 4! + 4}^{4}$

903 : not found.

$904 = 4! + 44 \times (4! - 4)$

905 : not found.

906 : not found.

907 : not found.

908 : not found.

909 : not found.

910 : not found.

911 : not found.

$912 = 4! + \sqrt{4} \times 444$

913 : not found.

914 : not found.

915 : not found.

916 : not found.

917 : not found.

918 : not found.

919 : not found.

$920 = (4! - 4) \times \left(\sqrt{4} + 44\right)$

921 : not found.

922 : not found.

923 : not found.

$924 = 4 \times \left(4^4 - 4!\right) - 4$

925 : not found.

$926 = 4 \times \left(4^4 - 4!\right) - \sqrt{4}$

927 : not found.

$928 = 4 \times 4^4 - 4! \times 4$

929 : not found.

$930 = \sqrt{4} + 4 \times \left(4^4 - 4!\right)$

931 : not found.

$932 = 4 + 4 \times \left(4^4 - 4!\right)$

933 : not found.

934 : not found.

935 : not found.

$936 = \sqrt{4} \times (4! + 444)$

937 : not found.

938 : not found.

939 : not found.

940 : not found.

941 : not found.

942 : not found.

943 : not found.

$944 = 4 \times \left(4 + 4^4 - 4!\right)$

945 : not found.

946 : not found.

947 : not found.

948 : not found.

949 : not found.

950 : not found.

951 : not found.

$952 = 4! + 4 \times \left(4^4 - 4!\right)$

953 : not found.

954 : not found.

955 : not found.

$956 = 4! \times (44 - 4) - 4$

957 : not found.

$958 = 4! \times (44 - 4) - \sqrt{4}$

959 : not found.

$960 = (4! - 4) \times (4 + 44)$

$961 = \sqrt{4! + \frac{4! + 4}{4}}^4$

$962 = \sqrt{4} + 4! \times (44 - 4)$

963 : not found.

$964 = 4 + 4! \times (44 - 4)$

965 : not found.

$966 = \frac{44^{\sqrt{4}} - 4}{\sqrt{4}}$

$967 = \frac{44^{\sqrt{4}} - \sqrt{4}}{\sqrt{4}}$

$968 = 44 \times \frac{44}{\sqrt{4}}$

$969 = \frac{\sqrt{4} + 44^{\sqrt{4}}}{\sqrt{4}}$

$970 = \dfrac{4 + 44^{\sqrt{4}}}{\sqrt{4}}$

971 : not found.

$972 = 4 + 44 \times \left(4! - \sqrt{4}\right)$

973 : not found.

$974 = 4^4 + \left(\sqrt{4} + 4\right)! - \sqrt{4}$

975 : not found.

$976 = 4^4 + \left(4 + 4 - \sqrt{4}\right)!$

977 : not found.

$978 = \sqrt{4} + 4^4 + \left(\sqrt{4} + 4\right)!$

979 : not found.

$980 = 4 \times 4^4 - 44$

981 : not found.

$982 = \sqrt{4!} \times \sqrt{4! + (4 + 4)!} - \sqrt{4}$

983 : not found.

$984 = 4! + 4! \times (44 - 4)$

985 : not found.

$986 = \sqrt{4} + \sqrt{4!} \times \sqrt{4! + (4 + 4)!}$

987 : not found.

$988 = 4 + \sqrt{4!} \times \sqrt{4! + (4 + 4)!}$

989 : not found.

990 : not found.

991 : not found.

$992 = 4 \times \left(4^4 - (4 + 4)\right)$

993 : not found.

$994 = \dfrac{\sqrt{\sqrt{4}}^{4!} - 4!}{4} - 4!$

995 : not found.

$996 = 4 \times 4^4 - (4! + 4)$

997 : not found.

$998 = 4 \times 4^4 - \left(\sqrt{4} + 4!\right)$

$999 = \dfrac{\sqrt{\sqrt{4}}^{4!} - 4}{4} - 4!$

$1000 = 4 \times \left(4^4 - \left(\sqrt{4} + 4\right)\right)$

Found 731 in 1001. Elapsed 827.827 seconds.