

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

2011年3月23日

$$0 = 44 - 44$$

$$1 = \frac{44}{44}$$

$$2 = 4 - \frac{4+4}{4}$$

$$3 = \frac{4+4+4}{4}$$

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

$$5 = \frac{4+4 \times 4}{4}$$

$$6 = 4 + \frac{4+4}{4}$$

$$7 = \frac{44}{4} - 4$$

$$8 = 4 + 4 + 4 - 4$$

$$9 = 4 + 4 + \frac{4}{4}$$

$$10 = \frac{44 - 4}{4}$$

$$11 = \frac{44}{\sqrt{4 \times 4}}$$

$$12 = \frac{4 + 44}{4}$$

$$13 = \sqrt{4} + \frac{44}{4}$$

$$14 = \sqrt{4} + 4 + 4 + 4$$

$$15 = 4 + \frac{44}{4}$$

$$16 = 4 + 4 + 4 + 4$$

$$17 = \frac{4}{4} + 4 \times 4$$

$$18 = 4 + 4 \times 4 - \sqrt{4}$$

$$19 = 4! - \left(4 + \frac{4}{4}\right)$$

$$20 = 4 \times \left(4 + \frac{4}{4}\right)$$

$$21 = 4! + \frac{4}{4} - 4$$

$$22 = \sqrt{4} + 4 + 4 \times 4$$

$$23 = \frac{\sqrt{4} + 44}{\sqrt{4}}$$

$$24 = 4 + 4 + 4 \times 4$$

$$25 = \frac{4 + 4! \times 4}{4}$$

$$26 = 4 + \frac{44}{\sqrt{4}}$$

$$27 = 4! + 4 - \frac{4}{4}$$

$$28 = 44 - 4 \times 4$$

$$29 = 4! + 4 + \frac{4}{4}$$

$$30 = 4 \times (4 + 4) - \sqrt{4}$$

$$31 = 4! + \frac{4! + 4}{4}$$

$$32 = 4 \times 4 + 4 \times 4$$

$$33 = \frac{\sqrt{4} + \sqrt{\sqrt{\sqrt{4}}^{4!}}}{\sqrt{4}}$$

$$34 = \sqrt{4} + 4 \times (4 + 4)$$

$$35 = 4! + \frac{44}{4}$$

$$36 = 44 - (4 + 4)$$

$$37 = 4! + \frac{\sqrt{4} + 4!}{\sqrt{4}}$$

$$38 = 44 - (\sqrt{4} + 4)$$

39 : not found.

$$40 = 4 \times (\sqrt{4} + 4 + 4)$$

$$41 = \sqrt{\frac{4! + (4 + 4)!}{4!}}$$

$$42 = \sqrt{4} + 44 - 4$$

$$43 = 44 - \frac{4}{4}$$

$$44 = 4 + 44 - 4$$

$$45 = \frac{4}{4} + 44$$

$$46 = 4 + 44 - \sqrt{4}$$

$$47 = 4! + 4! - \frac{4}{4}$$

$$48 = 4 \times (4 + 4 + 4)$$

$$49 = 4! + 4! + \frac{4}{4}$$

$$50 = \sqrt{4} + 4 + 44$$

$$51 = 4! \times \left( \sqrt{4} + \sqrt{\sqrt{\sqrt{\sqrt{\sqrt{4}}}}^{-4!}} \right)$$

$$52 = 4 + 4 + 44$$

53 : not found.

$$54 = \sqrt{4} + 4! + 4! + 4$$

55 : not found.

$$56 = 4! + 4 \times (4 + 4)$$

57 : not found.

$$58 = \frac{4^4 - 4!}{4}$$

59 : not found.

$$60 = 44 + 4 \times 4$$

61 : not found.

$$62 = 4 \times 4 \times 4 - \sqrt{4}$$

$$63 = \frac{4^4 - 4}{4}$$

$$64 = (4 + 4) \times (4 + 4)$$

$$65 = \frac{4 + 4^4}{4}$$

$$66 = \sqrt{4} + 4 \times 4 \times 4$$

67 : not found.

$$68 = 4 + 4 \times 4 \times 4$$

69 : not found.

$$70 = \sqrt{4} + 4! + 44$$

71 : not found.

$$72 = 4! + 4 + 44$$

73 : not found.

$$74 = \sqrt{4} + 4! \times 4 - 4!$$

75 : not found.

$$76 = 4 \times (4! - 4) - 4$$

77 : not found.

$$78 = 4 \times (4! - 4) - \sqrt{4}$$

79 : not found.

$$80 = 4 \times (4 + 4 \times 4)$$

$$81 = \left( 4 - \frac{4}{4} \right)^4$$

$$82 = \sqrt{4} + 4 \times (4! - 4)$$

83 : not found.

$$84 = \sqrt{4} \times 44 - 4$$

85 : not found.

$$86 = \sqrt{4} \times 44 - \sqrt{4}$$

87 : not found.

$$88 = 44 + 44$$

89 : not found.

$$90 = \sqrt{4} + \sqrt{4} \times 44$$

91 : not found.

$$92 = 4 + \sqrt{4} \times 44$$

$$93 = 4! \times \left( 4 - \sqrt{\sqrt{\sqrt{\sqrt{4}}}}^{-4!} \right)$$

$$94 = \sqrt{4} + 4! \times 4 - 4$$

$$95 = 4! \times 4 - \frac{4}{4}$$

$$96 = \sqrt{4} \times (4 + 44)$$

$$97 = \frac{4}{4} + 4! \times 4$$

$$98 = 4 + 4! \times 4 - \sqrt{4}$$

$$99 = 4! \times \left( 4 + \sqrt{\sqrt{\sqrt{\sqrt{4}}}}^{-4!} \right)$$

$$100 = 4 \times \left( 4! + \frac{4}{4} \right)$$

101 : not found.

$$102 = \sqrt{4} + 4 + 4! \times 4$$

103 : not found.

$$104 = 4 + 4 + 4! \times 4$$

105 : not found.

$$106 = \sqrt{4} + 4 \times (\sqrt{4} + 4!)$$

107 : not found.

$$108 = 4 \times (4! + 4) - 4$$

109 : not found.

$$110 = 4 \times (4! + 4) - \sqrt{4}$$

$$111 = \frac{444}{4}$$

$$112 = 4! \times 4 + 4 \times 4$$

113 : not found.

$$114 = \sqrt{4} + 4 \times (4! + 4)$$

115 : not found.

$$116 = 4 + 4 \times (4! + 4)$$

117 : not found.

$$118 = \left(4 + \frac{4}{4}\right)! - \sqrt{4}$$

119 : not found.

$$120 = 4! \times \left(4 + \frac{4}{4}\right)$$

$$121 = \left(\frac{44}{4}\right)^{\sqrt{4}}$$

$$122 = \sqrt{4} + \left(4 + \frac{4}{4}\right)!$$

123 : not found.

$$124 = 4 + \left(4 + \frac{4}{4}\right)!$$

$$125 = \sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\frac{4}{4}}}}}}^{4!}$$

$$126 = \frac{4^4 - 4}{\sqrt{4}}$$

$$127 = \frac{4^4 - \sqrt{4}}{\sqrt{4}}$$

$$128 = 4 \times 4 \times (4 + 4)$$

$$129 = \frac{\sqrt{4} + 4^4}{\sqrt{4}}$$

$$130 = \frac{4 + 4^4}{\sqrt{4}}$$

131 : not found.

$$132 = 4 + \frac{4^4}{\sqrt{4}}$$

133 : not found.

134 : not found.

135 : not found.

$$136 = \sqrt{4} \times (4! + 44)$$

137 : not found.

$$138 = \frac{4! \times 4! - 4!}{4}$$

139 : not found.

$$140 = 44 + 4! \times 4$$

141 : not found.

$$142 = 4! \times (\sqrt{4} + 4) - \sqrt{4}$$

$$143 = \frac{4! \times 4! - 4}{4}$$

$$144 = (4 + 4 + 4)^{\sqrt{4}}$$

$$145 = \frac{4 + 4! \times 4!}{4}$$

$$146 = \sqrt{4} + 4! \times (\sqrt{4} + 4)$$

147 : not found.

$$148 = 4 + 4! \times (\sqrt{4} + 4)$$

149 : not found.

$$150 = \frac{4! + 4! \times 4!}{4}$$

151 : not found.

$$152 = 4 \times 44 - 4!$$

153 : not found.

154 : not found.

155 : not found.

$$156 = (\sqrt{4} + 4!) \times (\sqrt{4} + 4)$$

157 : not found.

158 : not found.

159 : not found.

$$160 = 4 \times (44 - 4)$$

161 : not found.

$$162 = \left( \sqrt{\sqrt{\sqrt{4}}} + \sqrt{\sqrt{\sqrt{4} \times 4}} \right)^4$$

163 : not found.

164 : not found.

165 : not found.

166 : not found.

167 : not found.

$$168 = 4 \times (44 - \sqrt{4})$$

$$169 = \frac{(\sqrt{4} + 4!)^{\sqrt{4}}}{4}$$

170 : not found.

171 : not found.

$$172 = 4 \times 44 - 4$$

173 : not found.

$$174 = 4 \times 44 - \sqrt{4}$$

175 : not found.

$$176 = 44 \times \sqrt{4 \times 4}$$

177 : not found.

$$178 = \sqrt{4} + 4 \times 44$$

$$179 = \frac{(\sqrt{4} + 4)! - 4}{4}$$

$$180 = 4 + 4 \times 44$$

$$181 = \frac{4 + (\sqrt{4} + 4)!}{4}$$

$$182 = \sqrt{4} + \frac{(\sqrt{4} + 4)!}{4}$$

183 : not found.

$$184 = 4 \times (\sqrt{4} + 44)$$

185 : not found.

$$186 = \frac{4! + (\sqrt{4} + 4)!}{4}$$

187 : not found.

$$188 = 4! \times (4 + 4) - 4$$

189 : not found.

$$190 = 4! \times (4 + 4) - \sqrt{4}$$

191 : not found.

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

193 : not found.

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

195 : not found.

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

197 : not found.

198 : not found.

199 : not found.

$$200 = 4! + 4 \times 44$$

201 : not found.

202 : not found.

203 : not found.

$$204 = 4! + \frac{(\sqrt{4} + 4)!}{4}$$

205 : not found.

206 : not found.

207 : not found.

$$208 = (\sqrt{4} + 4!) \times (4 + 4)$$

209 : not found.

$$210 = \frac{\left(\frac{4! + 4}{4}\right)!}{4!}$$

211 : not found.

$$212 = 4^4 - 44$$

213 : not found.

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

215 : not found.

$$216 = 4! + 4! \times (4 + 4)$$

217 : not found.

$$218 = \sqrt{4} + \sqrt{\sqrt{\sqrt{\sqrt{\sqrt{4+4}}}}}$$

219 : not found.

$$220 = 4 + \sqrt{\sqrt{\sqrt{\sqrt{\sqrt{4+4}}}}}$$

221 : not found.

$$222 = \frac{444}{\sqrt{4}}$$

223 : not found.

$$224 = (4! + 4) \times (4 + 4)$$

225 : not found.

226 : not found.

227 : not found.

$$228 = 4^4 - (4! + 4)$$

229 : not found.

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

231 : not found.

$$232 = \sqrt{4^{4+4}} - 4!$$

233 : not found.

$$234 = \sqrt{4} + 4^4 - 4!$$

235 : not found.

$$236 = 4 + 4^4 - 4!$$

237 : not found.

238 : not found.

239 : not found.

$$240 = 4^4 - 4 \times 4$$

241 : not found.

$$242 = \frac{\sqrt{4! - \sqrt{4}}}{\sqrt{4}}$$

243 : not found.

$$244 = 4^4 - \frac{4!}{\sqrt{4}}$$

245 : not found.

246 : not found.

247 : not found.



$$248 = 4^4 - (4 + 4)$$

249 : not found.

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

251 : not found.

$$252 = \sqrt{4^{4+4}} - 4$$

253 : not found.

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

$$255 = 4^4 - \frac{4}{4}$$

$$256 = 4 + 4^4 - 4$$

$$257 = \frac{4}{4} + 4^4$$

$$258 = 4 + 4^4 - \sqrt{4}$$

259 : not found.

$$260 = 4 + \sqrt{4^{4+4}}$$

261 : not found.

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

263 : not found.

$$264 = 4 + 4 + 4^4$$

265 : not found.

266 : not found.

267 : not found.

$$268 = \frac{4!}{\sqrt{4}} + 4^4$$

269 : not found.

270 : not found.

271 : not found.

$$272 = 4 \times (4! + 44)$$

273 : not found.

274 : not found.

275 : not found.

$$276 = 4! + 4^4 - 4$$

277 : not found.

$$278 = 4! + 4^4 - \sqrt{4}$$

279 : not found.

$$280 = 4! + \sqrt{4^{4+4}}$$

281 : not found.

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

283 : not found.

$$284 = 4! + 4 + 4^4$$

285 : not found.

$$286 = \frac{4! \times 4! - 4}{\sqrt{4}}$$

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

$$288 = 4! \times (4 + 4 + 4)$$

$$289 = \frac{\sqrt{4} + 4! \times 4!}{\sqrt{4}}$$

$$290 = \frac{4 + 4! \times 4!}{\sqrt{4}}$$

291 : not found.

$$292 = 4 + 4! \times \frac{4!}{\sqrt{4}}$$

293 : not found.

294 : not found.

295 : not found.

296 : not found.

297 : not found.

298 : not found.

299 : not found.

$$300 = 44 + 4^4$$

301 : not found.

302 : not found.

303 : not found.

$$304 = 4! + 4! + 4^4$$

305 : not found.

306 : not found.

307 : not found.

308 : not found.

309 : not found.

310 : not found.

311 : not found.

$$312 = 4! \times \frac{\sqrt{4} + 4!}{\sqrt{4}}$$

313 : not found.

314 : not found.

315 : not found.

316 : not found.

317 : not found.

318 : not found.

319 : not found.

$$320 = 4 \times 4 \times (4! - 4)$$

321 : not found.

322 : not found.

323 : not found.

$$324 = \frac{(\sqrt{4} + 4)^4}{4}$$

325 : not found.

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.

$$336 = 4! \times (4 \times 4 - \sqrt{4})$$

337 : not found.

$$338 = \frac{(\sqrt{4} + 4!)^{\sqrt{4}}}{\sqrt{4}}$$

339 : not found.

340 : not found.

341 : not found.

342 : not found.

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

344 : not found.

345 : not found.

346 : not found.

347 : not found.

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

349 : not found.

350 : not found.

351 : not found.

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

353 : not found.

354 : not found.

355 : not found.

$$356 = \frac{(\sqrt{4} + 4)!}{\sqrt{4}} - 4$$

357 : not found.

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

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

$$360 = 4! \times 4 \times 4 - 4!$$

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

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

363 : not found.

$$364 = 4 + \frac{(\sqrt{4} + 4)!}{\sqrt{4}}$$

365 : not found.

366 : not found.

367 : not found.

$$368 = 4 \times (4! \times 4 - 4)$$

369 : not found.

370 : not found.

371 : not found.

$$372 = \frac{4! + (\sqrt{4} + 4)!}{\sqrt{4}}$$

373 : not found.

374 : not found.

375 : not found.

$$376 = 4 \times (4! \times 4 - \sqrt{4})$$

377 : not found.

378 : not found.

379 : not found.

$$380 = 4! \times 4 \times 4 - 4$$

381 : not found.

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

383 : not found.

$$384 = \sqrt{4} \times 4! \times (4 + 4)$$

385 : not found.

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

387 : not found.

$$388 = 4 + 4! \times 4 \times 4$$

389 : not found.

390 : not found.

391 : not found.

$$392 = 4 \times (\sqrt{4} + 4! \times 4)$$

393 : not found.

394 : not found.

395 : not found.

$$396 = \sqrt{4! - 4}^4 - 4$$

397 : not found.

$$398 = \sqrt{4! - 4}^4 - \sqrt{4}$$

399 : not found.

$$400 = 4 \times (4 + 4! \times 4)$$

401 : not found.

$$402 = \sqrt{4} + \sqrt{4! - 4}^4$$

403 : not found.

$$404 = 4 + \sqrt{4! - 4}^4$$

405 : not found.

406 : not found.

407 : not found.

$$408 = 4! + 4! \times 4 \times 4$$

409 : not found.

410 : not found.

411 : not found.

412 : not found.

413 : not found.

414 : not found.

415 : not found.

$$416 = 4 \times 4 \times (\sqrt{4} + 4!)$$

417 : not found.

418 : not found.

419 : not found.

$$420 = 444 - 4!$$

421 : not found.

422 : not found.

423 : not found.

$$424 = 4! + \sqrt{4! - 4}^4$$

425 : not found.

426 : not found.

427 : not found.

428 : not found.

429 : not found.

430 : not found.

431 : not found.

$$432 = 4! \times (\sqrt{4} + 4 \times 4)$$

433 : not found.

434 : not found.

435 : not found.

436 : not found.

437 : not found.

438 : not found.

439 : not found.

$$440 = 444 - 4$$

441 : not found.

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

443 : not found.

$$444 = \sqrt{\sqrt{444}^4}$$

445 : not found.

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

447 : not found.

$$448 = 4 + 444$$

449 : not found.

450 : not found.

451 : not found.

452 : not found.

453 : not found.

454 : not found.

455 : not found.

$$456 = 4! \times (4! - 4) - 4!$$

457 : not found.

458 : not found.

459 : not found.

$$460 = \sqrt{4! - \sqrt{4}} - 4!$$

461 : not found.

462 : not found.

463 : not found.

$$464 = (\sqrt{4} + 4)! - 4^4$$

465 : not found.

466 : not found.

467 : not found.

$$468 = 4! + 444$$

469 : not found.

470 : not found.

471 : not found.

472 : not found.  
 473 : not found.  
 474 : not found.  
 475 : not found.  
 $476 = 4! \times (4! - 4) - 4$   
 477 : not found.  
 $478 = 4! \times (4! - 4) - \sqrt{4}$   
 479 : not found.  
 $480 = 4! \times (4 + 4 \times 4)$   
 481 : not found.  
 $482 = \sqrt{4} + 4! \times (4! - 4)$   
 483 : not found.  
 $484 = \frac{44^{\sqrt{4}}}{4}$   
 485 : not found.  
 $486 = \sqrt{4} + \sqrt{4! - \sqrt{4}}^4$   
 487 : not found.  
 $488 = \sqrt{4} \times 4^4 - 4!$   
 489 : not found.  
 490 : not found.  
 491 : not found.  
 492 : not found.  
 493 : not found.  
 494 : not found.  
 495 : not found.  
 496 : not found.  
 497 : not found.  
 498 : not found.  
 499 : not found.  
 500 : not found.  
 501 : not found.  
 502 : not found.  
 503 : not found.  
 $504 = \sqrt{4} \times (4^4 - 4)$   
 505 : not found.  
 506 : not found.  
 507 : not found.  
 $508 = \sqrt{4} \times 4^4 - 4$   
 509 : not found.  
 $510 = \sqrt{4} \times 4^4 - \sqrt{4}$

511 : not found.  
 $512 = 4^4 + 4^4$   
 513 : not found.  
 $514 = \sqrt{4} + \sqrt{4} \times 4^4$   
 515 : not found.  
 $516 = 4 + \sqrt{4} \times 4^4$   
 517 : not found.  
 518 : not found.  
 519 : not found.  
 $520 = \sqrt{4} \times (4 + 4^4)$   
 521 : not found.  
 522 : not found.  
 523 : not found.  
 $524 = 4! \times (4! - \sqrt{4}) - 4$   
 525 : not found.  
 $526 = 4! \times (4! - \sqrt{4}) - \sqrt{4}$   
 527 : not found.  
 $528 = 4! \times \frac{44}{\sqrt{4}}$   
 $529 = \left(4! - \frac{4}{4}\right)^{\sqrt{4}}$   
 $530 = \sqrt{4} + 4! \times (4! - \sqrt{4})$   
 531 : not found.  
 $532 = 4! \times 4! - 44$   
 533 : not found.  
 534 : not found.  
 535 : not found.  
 $536 = 4! + \sqrt{4} \times 4^4$   
 537 : not found.  
 538 : not found.  
 539 : not found.  
 540 : not found.  
 541 : not found.  
 542 : not found.  
 543 : not found.  
 544 : not found.  
 545 : not found.  
 546 : not found.  
 547 : not found.  
 $548 = 4! \times 4! - (4! + 4)$



549 : not found.

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

551 : not found.

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

553 : not found.

$$554 = \sqrt{4} + 4! \times 4! - 4!$$

555 : not found.

$$556 = 4 + 4! \times 4! - 4!$$

557 : not found.

558 : not found.

559 : not found.

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

561 : not found.

562 : not found.

563 : not found.

$$564 = 4! \times \left(4! - \frac{\sqrt{4}}{4}\right)$$

565 : not found.

566 : not found.

567 : not found.

$$568 = 4! \times 4! - (4 + 4)$$

569 : not found.

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

571 : not found.

$$572 = 4!^{4-\sqrt{4}} - 4$$

$$573 = 4! \times \left(4! - \sqrt{\sqrt{\sqrt{\sqrt{4}}}}^{-4!}\right)$$

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

$$575 = 4! \times 4! - \frac{4}{4}$$

$$576 = 4! \times 4 \times (\sqrt{4} + 4)$$

$$577 = \frac{4}{4} + 4! \times 4!$$

$$578 = 4 + 4! \times 4! - \sqrt{4}$$

$$579 = 4! \times \left(4! + \sqrt{\sqrt{\sqrt{\sqrt{4}}}}^{-4!}\right)$$

$$580 = 4 + 4!^{4-\sqrt{4}}$$

581 : not found.

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

583 : not found.

$$584 = 4 + 4 + 4! \times 4!$$

585 : not found.

586 : not found.

587 : not found.

$$588 = 4! \times \left( 4! + \frac{\sqrt{4}}{4} \right)$$

589 : not found.

590 : not found.

591 : not found.

$$592 = 4! \times 4! + 4 \times 4$$

593 : not found.

594 : not found.

595 : not found.

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

597 : not found.

$$598 = 4! + 4! \times 4! - \sqrt{4}$$

599 : not found.

$$600 = 4! \times \left( 4! + \frac{4}{4} \right)$$

601 : not found.

$$602 = \sqrt{4} + 4! + 4! \times 4!$$

603 : not found.

$$604 = 4! + 4 + 4! \times 4!$$

605 : not found.

606 : not found.

607 : not found.

608 : not found.

609 : not found.

610 : not found.

611 : not found.

612 : not found.

613 : not found.

614 : not found.

615 : not found.

$$616 = (4! + 4) \times (4! - \sqrt{4})$$

617 : not found.

618 : not found.

619 : not found.

$$620 = 4! \times 4! + 44$$

621 : not found.

$$622 = 4! \times (\sqrt{4} + 4!) - \sqrt{4}$$

623 : not found.

$$624 = 4! \times (4! + 4 - \sqrt{4})$$

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

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

627 : not found.

$$628 = 4 + 4! \times (\sqrt{4} + 4!)$$

629 : not found.

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

631 : not found.

632 : not found.

633 : not found.

634 : not found.

635 : not found.

636 : not found.

637 : not found.

638 : not found.

639 : not found.

$$640 = \sqrt{\sqrt{\sqrt{4}}^{4!}} + 4! \times 4!$$

641 : not found.

642 : not found.

643 : not found.

644 : not found.

645 : not found.

646 : not found.

647 : not found.

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

649 : not found.

650 : not found.

651 : not found.

$$652 = (\sqrt{4} + 4!)^{\sqrt{4}} - 4!$$

653 : not found.

654 : not found.

655 : not found.

$$656 = (\sqrt{4} + 4)! - \sqrt{\sqrt{\sqrt{4}}^{4!}}$$

657 : not found.

658 : not found.

659 : not found.

660 : not found.

661 : not found.

662 : not found.

663 : not found.

664 : not found.

665 : not found.

666 : not found.

667 : not found.

$$668 = 4! \times (4! + 4) - 4$$

669 : not found.

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

671 : not found.

$$672 = 4! \times (4! + \sqrt{4 \times 4})$$

673 : not found.

$$674 = \sqrt{4} + 4! \times (4! + 4)$$

675 : not found.

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

677 : not found.

$$678 = \sqrt{4} + (\sqrt{4} + 4!)^{\sqrt{4}}$$

679 : not found.

$$680 = 4 + (\sqrt{4} + 4!)^{\sqrt{4}}$$

681 : not found.

682 : not found.

683 : not found.

684 : not found.

685 : not found.

686 : not found.

687 : not found.

688 : not found.

689 : not found.

690 : not found.

691 : not found.

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

693 : not found.  
 $694 = (\sqrt{4} + 4)! - (\sqrt{4} + 4!)$   
 695 : not found.  
 $696 = (4 + 4 - \sqrt{4})! - 4!$   
 697 : not found.  
 $698 = \sqrt{4} + (\sqrt{4} + 4)! - 4!$   
 699 : not found.  
 $700 = 4 + (\sqrt{4} + 4)! - 4!$   
 701 : not found.  
 702 : not found.  
 703 : not found.  
 $704 = 4 \times 4 \times 44$   
 705 : not found.  
 706 : not found.  
 707 : not found.  
 $708 = (\sqrt{4} + 4)! - \frac{4!}{\sqrt{4}}$   
 709 : not found.  
 710 : not found.  
 711 : not found.  
 $712 = (\sqrt{4} + 4)! - (4 + 4)$   
 713 : not found.  
 $714 = (\sqrt{4} + 4)! - (\sqrt{4} + 4)$   
 715 : not found.  
 $716 = (4 + 4 - \sqrt{4})! - 4$   
 717 : not found.  
 $718 = \sqrt{4} + (\sqrt{4} + 4)! - 4$   
 $719 = (\sqrt{4} + 4)! - \frac{4}{4}$   
 $720 = \left(4 + \frac{4 + 4}{4}\right)!$   
 $721 = \frac{4}{4} + (\sqrt{4} + 4)!$   
 $722 = \sqrt{4} + (4 + 4 - \sqrt{4})!$   
 723 : not found.  
 $724 = 4 + (4 + 4 - \sqrt{4})!$   
 725 : not found.  
 $726 = \sqrt{4} + 4 + (\sqrt{4} + 4)!$

727 : not found.

$$728 = 4 + 4 + (\sqrt{4} + 4)!$$

$$729 = \sqrt{\sqrt{4 - \frac{4}{4}}^{4!}}$$

730 : not found.

731 : not found.

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

733 : not found.

734 : not found.

735 : not found.

$$736 = 4 \times 4 + (\sqrt{4} + 4)!$$

737 : not found.

738 : not found.

739 : not found.

$$740 = 4! + (\sqrt{4} + 4)! - 4$$

741 : not found.

$$742 = 4! + (\sqrt{4} + 4)! - \sqrt{4}$$

743 : not found.

$$744 = 4! + (4 + 4 - \sqrt{4})!$$

745 : not found.

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

747 : not found.

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

749 : not found.

750 : not found.

751 : not found.

752 : not found.

753 : not found.

754 : not found.

755 : not found.

756 : not found.

757 : not found.

758 : not found.

759 : not found.

$$760 = (4! + 4)^{\sqrt{4}} - 4!$$

761 : not found.

762 : not found.

763 : not found.  
 $764 = 44 + (\sqrt{4} + 4)!$   
 765 : not found.  
 766 : not found.  
 767 : not found.  
 $768 = 4! \times 4 \times (4 + 4)$   
 769 : not found.  
 770 : not found.  
 771 : not found.  
 772 : not found.  
 773 : not found.  
 774 : not found.  
 775 : not found.  
 776 : not found.  
 777 : not found.  
 778 : not found.  
 779 : not found.  
 $780 = (4! + 4)^{\sqrt{4}} - 4$   
 781 : not found.  
 $782 = (4! + 4)^{\sqrt{4}} - \sqrt{4}$   
 783 : not found.  
 $784 = (4! + 4) \times (4! + 4)$   
 785 : not found.  
 $786 = \sqrt{4} + (4! + 4)^{\sqrt{4}}$   
 787 : not found.  
 $788 = 4 + (4! + 4)^{\sqrt{4}}$   
 789 : not found.  
 790 : not found.  
 791 : not found.  
 792 : not found.  
 793 : not found.  
 794 : not found.  
 795 : not found.  
 796 : not found.  
 797 : not found.  
 798 : not found.  
 799 : not found.  
 $800 = \sqrt{4} \times \sqrt{4! - 4}$   
 801 : not found.  
 802 : not found.

803 : not found.  
 804 : not found.  
 805 : not found.  
 806 : not found.  
 807 : not found.  
 $808 = 4! + (4! + 4)^{\sqrt{4}}$   
 809 : not found.  
 810 : not found.  
 811 : not found.  
 812 : not found.  
 813 : not found.  
 814 : not found.  
 815 : not found.  
 $816 = 4! \times 4 + (\sqrt{4} + 4)!$   
 817 : not found.  
 818 : not found.  
 819 : not found.  
 820 : not found.  
 821 : not found.  
 822 : not found.  
 823 : not found.  
 824 : not found.  
 825 : not found.  
 826 : not found.  
 827 : not found.  
 828 : not found.  
 829 : not found.  
 830 : not found.  
 831 : not found.  
 $832 = 4! \times 4! + 4^4$   
 833 : not found.  
 834 : not found.  
 835 : not found.  
 836 : not found.  
 837 : not found.  
 838 : not found.  
 839 : not found.  
 $840 = \frac{(4 + 4)!}{4! + 4!}$   
 841 : not found.  
 842 : not found.



843 : not found.

844 : not found.

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848 : not found.

849 : not found.

850 : not found.

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854 : not found.

855 : not found.

856 : not found.

857 : not found.

858 : not found.

859 : not found.

860 : not found.

861 : not found.

862 : not found.

863 : not found.

$$864 = 4! \times \sqrt{\sqrt{4} + 4}^4$$

865 : not found.

866 : not found.

867 : not found.

868 : not found.

869 : not found.

870 : not found.

871 : not found.

872 : not found.

873 : not found.

874 : not found.

875 : not found.

876 : not found.

877 : not found.

878 : not found.

879 : not found.

$$880 = 44 \times (4! - 4)$$

881 : not found.

882 : not found.

883 : not found.

884 : not found.

885 : not found.

886 : not found.

887 : not found.

888 =  $\sqrt{4} \times 444$

889 : not found.

890 : not found.

891 : not found.

892 : not found.

893 : not found.

894 : not found.

895 : not found.

896 : not found.

897 : not found.

898 : not found.

899 : not found.

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

901 : not found.

902 : not found.

903 : not found.

904 : not found.

905 : not found.

906 : not found.

907 : not found.

908 : not found.

909 : not found.

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920 : not found.

921 : not found.

922 : not found.

923 : not found.

924 : not found.

925 : not found.  
926 : not found.  
927 : not found.  
928 =  $4 \times (4^4 - 4!)$   
929 : not found.  
930 : not found.  
931 : not found.  
932 : not found.  
933 : not found.  
934 : not found.  
935 : not found.  
936 : not found.  
937 : not found.  
938 : not found.  
939 : not found.  
940 : not found.  
941 : not found.  
942 : not found.  
943 : not found.  
944 : not found.  
945 : not found.  
946 : not found.  
947 : not found.  
948 : not found.  
949 : not found.  
950 : not found.  
951 : not found.  
952 : not found.  
953 : not found.  
954 : not found.  
955 : not found.  
956 : not found.  
957 : not found.  
958 : not found.  
959 : not found.  
960 =  $4! \times (44 - 4)$   
961 : not found.  
962 : not found.  
963 : not found.  
964 : not found.  
965 : not found.  
966 : not found.

967 : not found.  
968 =  $44 \times (4! - \sqrt{4})$   
969 : not found.  
970 : not found.  
971 : not found.  
972 : not found.  
973 : not found.  
974 : not found.  
975 : not found.  
976 =  $4^4 + (\sqrt{4} + 4)!$   
977 : not found.  
978 : not found.  
979 : not found.  
980 : not found.  
981 : not found.  
982 : not found.  
983 : not found.  
984 =  $\sqrt{4!} \times \sqrt{4! + (4 + 4)!}$   
985 : not found.  
986 : not found.  
987 : not found.  
988 : not found.  
989 : not found.  
990 : not found.  
991 : not found.  
992 : not found.  
993 : not found.  
994 : not found.  
995 : not found.  
996 : not found.  
997 : not found.  
998 : not found.  
999 : not found.  
1000 =  $4 \times 4^4 - 4!$

Found 339 in 1001. Elapsed 9.021 seconds.