One iteration of 'table2_power.R'

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Summary

Below is one iteration of the code from "table2_power.R" from Wang et al. (2021). I show that they use a perturbation of the *true* genotype frequencies when constructing their test statistic. Since the true genotype frequencies are never known in reality, this test statistic could never be constructed in reality.

Code

This holds the output of the simulations

```
pvalue <- c()
geno.L <- c()
lr <- c()
kff <- c()</pre>
```

This generates prob1

```
a < -0.1
b < -0.1
c < -0.15
d < -0.1
e < -0.2
f <- 0.1
g < -0.05
h < -0.1
i <- 0.1
alpha = 0
prob0 \leftarrow c(0.1, 0.1, 0.15, 0.1, 0.2, 0.1, 0.05, 0.1, 0.1)
Q9.1 \leftarrow (a^2 * 1 + 2 * a * b * (9/16 + 1/64 * alpha^2 + 3/16 *
    alpha) + 2 * a * c * (225/784 + 9/196 * alpha^2 + 45/196 *
    alpha) + 2 * a * d * (25/196 + 225/3136 * alpha^2 + 75/392 *
    alpha) + 2 * a * e * (9/196 + 4/49 * alpha^2 + 6/49 * alpha) +
    2 * a * f * (9/784 + 225/3136 * alpha^2 + 45/784 * alpha) +
    2 * a * g * (1/784 + 9/196 * alpha^2 + 3/196 * alpha) + 2 *
    a * h * (1/64 * alpha^2) + 0 + b^2 * (81/256 + 1/4096 * alpha^4 +
    3/512 * alpha^3 + 27/512 * alpha^2 + 27/128 * alpha) + 2 *
    b * c * (2025/12544 + 9/12544 * alpha^4 + 153/12544 * alpha^3 +
    3681/50176 * alpha^2 + 2295/12544 * alpha) + 2 * b * d *
    ((225 * alpha^4)/200704 + (825 * alpha^3)/50176 + (3925 *
        alpha^2)/50176 + (825 * alpha)/6272 + 225/3136) + 2 *
    b * e * (alpha^4/784 + (27 * alpha^3)/1568 + (873 * alpha^2)/12544 +
```

```
(243 * alpha)/3136 + 81/3136) + 2 * b * f * ((225 * alpha^4)/200704 +
       (45 * alpha^3)/3136 + (1287 * alpha^2)/25088 + (27 * alpha)/784 +
      81/12544) + 2 * b * g * ((9 * alpha^4)/12544 + (111 * alpha^3)/12544 +
      (1441 * alpha^2)/50176 + (111 * alpha)/12544 + 9/12544) +
      2 * b * h * (alpha^4/4096 + (3 * alpha^3)/1024 + (9 * alpha^2)/1024) +
      0 + c^2 * ((81 * alpha^4)/38416 + (405 * alpha^3)/19208 +
      (6075 * alpha^2)/76832 + (10125 * alpha)/76832 + 50625/614656) +
      2 * c * d * ((2025 * alpha^4)/614656 + (15525 * alpha^3)/614656 +
             (173025 * alpha^2)/2458624 + (25875 * alpha)/307328 +
             5625/153664) + 2 * c * e * ((9 * alpha^4)/2401 + (117 *
      alpha^3)/4802 + (2061 * alpha^2)/38416 + (1755 * alpha)/38416 +
      2025/153664) + 2 * c * f * ((2025 * alpha^4)/614656 + (11745 *
      alpha^3)/614656 + (84321 * alpha^2)/2458624 + (11745 * alpha)/614656 +
      2025/614656) + 2 * c * g * ((81 * alpha^4)/38416 + (27 *
      alpha^3)/2401 + (1287 * alpha^2)/76832 + (45 * alpha)/9604 +
      225/614656) + 2 * c * h * ((9 * alpha^4)/12544 + (45 * alpha^3)/12544 +
      (225 * alpha^2)/50176) + 0 + d^2 * ((50625 * alpha^4)/9834496 +
      (16875 * alpha^3)/614656 + (16875 * alpha^2)/307328 + (1875 *
      alpha)/38416 + 625/38416) + 2 * d * e * ((225 * alpha^4)/38416 +
       (1875 * alpha^3)/76832 + (22825 * alpha^2)/614656 + (1875 *
      alpha)/76832 + 225/38416) + 2 * d * f * ((50625 * alpha^4)/9834496 +
      (43875 * alpha^3)/2458624 + (51525 * alpha^2)/2458624 + (2925 *
      alpha)/307328 + 225/153664) + 2 * d * g * ((2025 * alpha^4)/614656 +
       (6075 * alpha^3)/614656 + (21825 * alpha^2)/2458624 + (675 *
      alpha)/307328 + 25/153664) + 2 * d * h * ((225 * alpha^4)/200704 +
       (75 * alpha^3)/25088 + (25 * alpha^2)/12544) + 0 + e^2 *
       ((16 * alpha^4)/2401 + (48 * alpha^3)/2401 + (54 * alpha^2)/2401 +
             (27 * alpha)/2401 + 81/38416) + 2 * e * f * ((225 * alpha^4)/38416 +
      (1035 * alpha^3)/76832 + (6921 * alpha^2)/614656 + (621 *
      alpha)/153664 + 81/153664) + 2 * e * g * ((9 * alpha^4)/2401 +
       (33 * alpha^3)/4802 + (157 * alpha^2)/38416 + (33 * alpha)/38416 +
      9/153664) + 2 * e * h * (alpha^4/784 + (3 * alpha^3)/1568 +
      (9 * alpha^2)/12544) + 0 + f^2 * ((50625 * alpha^4)/9834496 +
       (10125 * alpha^3)/1229312 + (6075 * alpha^2)/1229312 + (405 *
      alpha)/307328 + 81/614656) + 2 * f * g * ((2025 * alpha^4)/614656 +
      (2295 * alpha^3)/614656 + (3681 * alpha^2)/2458624 + (153 *
      alpha)/614656 + 9/614656) + 2 * f * h * ((225 * alpha^4)/200704 +
      (45 * alpha^3)/50176 + (9 * alpha^2)/50176) + 0 + g^2 * ((81 * alpha^2)/50176)
      alpha^4)/38416 + (27 * alpha^3)/19208 + (27 * alpha^2)/76832 +
       (3 * alpha)/76832 + 1/614656) + 2 * g * h * (9/12544 * alpha^4 +
      3/12544 * alpha^3 + 1/50176 * alpha^2) + 0 + h^2 * (1/4096 *
      alpha^4) + 0 + i^2 * 0
Q8.1 \leftarrow (a^2 * 0 + 2 * a * b * (3/8 - 1/16 * alpha^2 - 5/16 *
      alpha) + 2 * a * c * (45/98 - 9/49 * alpha^2 - 27/98 * alpha) +
      2 * a * d * (75/196 - 225/784 * alpha^2 - 75/784 * alpha) +
      2 * a * e * (12/49 - 16/49 * alpha^2 + 4/49 * alpha) + 2 *
      a * f * (45/392 - 225/784 * alpha^2 + 135/784 * alpha) +
      2 * a * g * (3/98 - 9/49 * alpha^2 + 15/98 * alpha) + 2 *
      a * h * (1/16 * alpha - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + 
      1/512 * alpha^4 - 17/512 * alpha^3 - 45/256 * alpha^2 - 27/128 *
      alpha) + 2 * b * c * (2295/6272 - 9/1568 * alpha^4 - 423/6272 *
```

```
alpha^3 - 2763/12544 * alpha^2 - 909/12544 * alpha) + 2 *
      b * d * ((-(225 * alpha^4)/25088) - (1125 * alpha^3)/12544 -
      (5375 * alpha^2)/25088 + (625 * alpha)/12544 + 825/3136) +
      2 * b * e * ((-alpha^4/98) - (73 * alpha^3)/784 - (549 *
             alpha^2)/3136 + (387 * alpha)/3136 + 243/1568) + 2 *
      b * f * ((-(225 * alpha^4)/25088) - (1935 * alpha^3)/25088 -
      (747 * alpha^2)/6272 + (855 * alpha)/6272 + 27/392) + 2 *
      b * g * ((-(9 * alpha^4)/1568) - (297 * alpha^3)/6272 - (775 *
      alpha^2)/12544 + (1219 * alpha)/12544 + 111/6272) + 2 * b *
      h * ((-alpha^4/512) - alpha^3/64 - (9 * alpha^2)/512 + (9 *
      alpha)/256) + 0 + c^2 * ((-(81 * alpha^4)/4802) - (1053 *
      alpha^3)/9604 - (3645 * alpha^2)/19208 + (2025 * alpha)/38416 +
      10125/38416) + 2 * c * d * ((-(2025 * alpha^4)/76832) - (38475 *
      alpha^3)/307328 - (79875 * alpha^2)/614656 + (69525 * alpha)/614656 +
      25875/153664) + 2 * c * e * ((-(72 * alpha^4)/2401) - (279 * alpha^4)/2401) 
      alpha^3)/2401 - (657 * alpha^2)/9604 + (2367 * alpha)/19208 +
      1755/19208) + 2 * c * f * ((-(2025 * alpha^4)/76832) - (27135 *
      alpha^3)/307328 - (13851 * alpha^2)/614656 + (60831 * alpha)/614656 +
      11745/307328) + 2 * c * g * ((-(81 * alpha^4)/4802) - (243 *
      alpha^3)/4802 + (9 * alpha^2)/19208 + (1107 * alpha)/19208 +
      45/4802) + 2 * c * h * ((-(9 * alpha^4)/1568) - (99 * alpha^3)/6272 +
      (45 * alpha^2)/12544 + (225 * alpha)/12544) + 0 + d^2 * ((-(50625 *
      alpha^4)/1229312) - (151875 * alpha^3)/1229312 - (16875 *
      alpha^2)/307328 + (9375 * alpha)/76832 + 1875/19208) + 2 *
      d * e * ((-(225 * alpha^4)/4802) - (3825 * alpha^3)/38416 -
      (325 * alpha^2)/153664 + (15325 * alpha)/153664 + 1875/38416) +
      2 * d * f * ((-(50625 * alpha^4)/1229312) - (10125 * alpha^3)/153664 +
             (28575 * alpha^2)/1229312 + (39825 * alpha)/614656 +
             2925/153664) + 2 * d * g * ((-(2025 * alpha^4)/76832) -
      (10125 * alpha^3)/307328 + (14625 * alpha^2)/614656 + (19125 *
      alpha)/614656 + 675/153664) + 2 * d * h * ((-(225 * alpha^4)/25088) -
       (225 * alpha^3)/25088 + (125 * alpha^2)/12544 + (25 * alpha)/3136) +
      0 + e^2 * ((-(128 * alpha^4)/2401) - (160 * alpha^3)/2401 +
      (72 * alpha^2)/2401 + (162 * alpha)/2401 + 54/2401) + 2 *
      e * f * ((-(225 * alpha^4)/4802) - (1305 * alpha^3)/38416 +
      (5499 * alpha^2)/153664 + (5679 * alpha)/153664 + 621/76832) +
      2 * e * g * ((-(72 * alpha^4)/2401) - (27 * alpha^3)/2401 +
             (239 * alpha^2)/9604 + (281 * alpha)/19208 + 33/19208) +
      2 * e * h * ((-alpha^4/98) - alpha^3/784 + (27 * alpha^2)/3136 +
             (9 * alpha)/3136) + 0 + f^2 * ((-(50625 * alpha^4)/1229312) -
      (10125 * alpha^3)/1229312 + (18225 * alpha^2)/614656 + (5265 *
      alpha)/307328 + 405/153664) + 2 * f * g * ((-(2025 * alpha^4)/76832) +
      (1215 * alpha^3)/307328 + (10089 * alpha^2)/614656 + (3375 *
      alpha)/614656 + 153/307328) + 2 * f * h * ((-(225 * alpha^4)/25088) +
      (45 * alpha^3)/12544 + (117 * alpha^2)/25088 + (9 * alpha)/12544) +
      0 + g^2 * ((-(81 * alpha^4)/4802) + (81 * alpha^3)/9604 +
      (135 * alpha^2)/19208 + (51 * alpha)/38416 + 3/38416) + 2 *
      g * h * (-9/1568 * alpha^4 + 27/6272 * alpha^3 + 17/12544 *
      alpha^2 + 1/12544 * alpha) + 0 + h^2 * (-1/512 * alpha^4 +
      1/512 * alpha^3) + 0 + i^2 * 0
Q7.1 \leftarrow (a^2 * 0 + 2 * a * b * (1/16 + 3/32 * alpha^2 + 1/16 *
```

```
alpha) + 2 * a * c * (87/392 + 27/98 * alpha^2 - 6/49 * alpha) +
2 * a * d * (285/784 + 675/1568 * alpha^2 - 255/784 * alpha) +
2 * a * e * (41/98 + 24/49 * alpha^2 - 20/49 * alpha) + 2 *
a * f * (285/784 + 675/1568 * alpha^2 - 255/784 * alpha) +
2 * a * g * (87/392 + 27/98 * alpha^2 - 6/49 * alpha) + 2 *
a * h * (1/16 + 3/32 * alpha^2 + 1/16 * alpha) + 0 + b^2 *
(27/128 + 7/1024 * alpha^4 + 39/512 * alpha^3 + 93/512 *
      alpha^2 - 9/64 * alpha) + 2 * b * c * (3951/12544 + 9/448 *
alpha^4 + 933/6272 * alpha^3 + 2109/12544 * alpha^2 - 3033/12544 *
alpha) + 2 * b * d * ((225 * alpha^4)/7168 + (1215 * alpha^3)/6272 +
(1425 * alpha^2)/12544 - (785 * alpha)/3136 + 4465/12544) +
2 * b * e * (alpha^4/28 + (39 * alpha^3)/196 + (93 * alpha^2)/1568 -
       (585 * alpha)/3136 + 1035/3136) + 2 * b * f * ((225 *
alpha^4)/7168 + (4125 * alpha^3)/25088 + (687 * alpha^2)/25088 -
(513 * alpha)/6272 + 1557/6272) + 2 * b * g * ((9 * alpha^4)/448 +
(639 * alpha^3)/6272 + (261 * alpha^2)/12544 + (271 * alpha)/12544 +
1711/12544) + 2 * b * h * ((7 * alpha^4)/1024 + (9 * alpha^3)/256 +
(3 * alpha^2)/128 + (9 * alpha)/128 + 9/256) + 0 + c^2 *
((81 * alpha^4)/1372 + (297 * alpha^3)/1372 + (81 * alpha^2)/2744 -
       (1215 * alpha)/5488 + 7425/21952) + 2 * c * d * ((2025 * alpha)/5488 + 7425/21952) + 2 * c * d * ((2025 * alpha)/5488)
alpha^4)/21952 + (9855 * alpha^3)/43904 - (1035 * alpha^2)/12544 -
(11625 * alpha)/87808 + 27075/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * ((3
alpha^4)/343 + (66 * alpha^3)/343 - (93 * alpha^2)/686 -
(81 * alpha)/2744 + 333/1372) + 2 * c * f * ((2025 * alpha^4)/21952 +
(6075 * alpha^3)/43904 - (1539 * alpha^2)/12544 + (4293 *
alpha)/87808 + 14013/87808) + 2 * c * g * ((81 * alpha^4)/1372 +
(27 * alpha^3)/343 - (171 * alpha^2)/2744 + (111 * alpha)/1372 +
1713/21952) + 2 * c * h * ((9 * alpha^4)/448 + (177 * alpha^3)/6272 +
(3 * alpha^2)/1792 + (765 * alpha)/12544 + 225/12544) + 0 +
d^2 * ((50625 * alpha^4)/351232 + (30375 * alpha^3)/175616 -
       (30375 * alpha^2)/175616 - (375 * alpha)/21952 + 375/1568) +
2 * d * e * ((225 * alpha^4)/1372 + (135 * alpha^3)/1372 -
       (1965 * alpha^2)/10976 + (205 * alpha)/3136 + 3595/21952) +
2 * d * f * ((50625 * alpha^4)/351232 + (3375 * alpha^3)/87808 -
       (5625 * alpha^2)/43904 + (4395 * alpha)/43904 + 1185/12544) +
2 * d * g * ((2025 * alpha^4)/21952 + (405 * alpha^3)/43904 -
       (675 * alpha^2)/12544 + (7695 * alpha)/87808 + 3555/87808) +
2 * d * h * ((225 * alpha^4)/7168 + (135 * alpha^3)/25088 +
       (15 * alpha^2)/3584 + (275 * alpha)/6272 + 25/3136) +
0 + e^2 * ((64 * alpha^4)/343 - (48 * alpha^2)/343 + (36 *
alpha)/343 + 135/1372) + 2 * e * f * ((225 * alpha^4)/1372 -
(75 * alpha^3)/1372 - (789 * alpha^2)/10976 + (45 * alpha)/448 +
1089/21952) + 2 * e * g * ((36 * alpha^4)/343 - (18 * alpha^3)/343 -
(9 * alpha^2)/686 + (185 * alpha)/2744 + 25/1372) + 2 * e *
h * (alpha^4/28 - (3 * alpha^3)/196 + (3 * alpha^2)/224 +
(81 * alpha)/3136 + 9/3136) + 0 + f^2 * ((50625 * alpha^4)/351232 -
(16875 * alpha^3)/175616 - (2025 * alpha^2)/175616 + (405 *
alpha)/5488 + 135/6272) + 2 * f * g * ((2025 * alpha^4)/21952 -
(3375 * alpha^3)/43904 + (261 * alpha^2)/12544 + (3453 *
alpha)/87808 + 573/87808) + 2 * f * h * ((225 * alpha^4)/7168 -
(75 * alpha^3)/3136 + (33 * alpha^2)/1792 + (9 * alpha)/784 +
9/12544) + 0 + g^2 * ((81 * alpha^4)/1372 - (81 * alpha^3)/1372 +
(81 * alpha^2)/2744 + (87 * alpha)/5488 + 33/21952) + 2 *
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g * h * (1/12544 + 9/448 * alpha^4 - 117/6272 * alpha^3 +
         27/1792 * alpha^2 + 37/12544 * alpha) + 0 + h^2 * (7/1024 *
         alpha^4 - 3/512 * alpha^3 + 3/512 * alpha^2) + 0 + i^2 *
Q6.1 \leftarrow (a^2 * 0 + 2 * a * b * (1/16 * alpha - 1/16 * alpha^2) +
         2 * a * c * (3/98 - 9/49 * alpha^2 + 15/98 * alpha) + 2 *
        a * d * (45/392 - 225/784 * alpha^2 + 135/784 * alpha) +
         2 * a * e * (12/49 - 16/49 * alpha^2 + 4/49 * alpha) + 2 *
        a * f * (75/196 - 225/784 * alpha^2 - 75/784 * alpha) + 2 *
        a * g * (45/98 - 9/49 * alpha^2 - 27/98 * alpha) + 2 * a *
        h * (3/8 - 1/16 * alpha^2 - 5/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alp
        7/512 * alpha^4 - 45/512 * alpha^3 - 3/128 * alpha^2 + 5/64 *
         alpha) + 2 * b * c * (405/3136 - 9/224 * alpha^4 - 999/6272 *
        alpha^3 + 807/12544 * alpha^2 + 75/12544 * alpha) + 2 * b *
        d * ((-(225 * alpha^4)/3584) - (2505 * alpha^3)/12544 + (3235 *
         alpha^2)/25088 - (1145 * alpha)/12544 + 705/3136) + 2 * b *
         e * ((-alpha^4/14) - (159 * alpha^3)/784 + (417 * alpha^2)/3136 -
         (529 * alpha)/3136 + 243/784) + 2 * b * f * ((-(225 * alpha^4)/3584) -
         (4275 * alpha^3)/25088 + (921 * alpha^2)/12544 - (39 * alpha)/196 +
         1125/3136) + 2 * b * g * ((-(9 * alpha^4)/224) - (705 * alpha^3)/6272 -
         (229 * alpha^2)/12544 - (2165 * alpha)/12544 + 1077/3136) +
         2 * b * h * ((-(7 * alpha^4)/512) - (3 * alpha^3)/64 - (39 *
                  alpha^2)/512 - (25 * alpha)/256 + 15/64) + 0 + c^2 *
         ((-(81 * alpha^4)/686) - (243 * alpha^3)/1372 + (81 * alpha^2)/392 -
                  (729 * alpha)/5488 + 1215/5488) + 2 * c * d * ((-(2025 * alpha)/5488) + 2 * c * d * ((-(2025 * alpha)/5488) + 2 * c * d * ((-(2025 * alpha)/5488) + 2 * c * d * ((-(2025 * alpha)/5488) + 2 * c * d * ((-(2025 * alpha)/5488) + 2 * c * d * ((-(2025 * alpha)/5488) + 2 * c * d * ((-(2025 * alpha)/5488) + 2 * c * d * ((-(2025 * alpha)/5488) + 2 * c * d * ((-(2025 * alpha)/5488) + 2 * c * d * ((-(2025 * alpha)/5488) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5488)) + 2 * c * d * ((-(2025 * alpha)/5
         alpha^4)/10976) - (5805 * alpha^3)/43904 + (21465 * alpha^2)/87808 -
         alpha^4/343) - (27 * alpha^3)/343 + (267 * alpha^2)/1372 -
         (615 * alpha)/2744 + 873/2744) + 2 * c * f * ((-(2025 * alpha^4)/10976) -
         (2025 * alpha^3)/43904 + (7857 * alpha^2)/87808 - (2025 *
         alpha)/12544 + 3321/10976) + 2 * c * g * ((-(81 * alpha^4)/686) -
         (27 * alpha^3)/686 - (9 * alpha^2)/392 - (165 * alpha)/2744 +
         165/686) + 2 * c * h * ((-(9 * alpha^4)/224) - (243 * alpha^3)/6272 -
         (993 * alpha^2)/12544 + (39 * alpha)/1792 + 855/6272) + 0 +
        d^2 * ((-(50625 * alpha^4)/175616) + (3375 * alpha^3)/175616 +
                  (16875 * alpha^2)/87808 - (10125 * alpha)/43904 + 3375/10976) +
        2 * d * e * ((-(225 * alpha^4)/686) + (15 * alpha^3)/112 +
                  (1655 * alpha^2)/21952 - (3665 * alpha)/21952 + 3135/10976) +
         2 * d * f * ((-(50625 * alpha^4)/175616) + (3375 * alpha^3)/21952 -
                  (5625 * alpha^2)/175616 - (5655 * alpha)/87808 + 2535/10976) +
        2 * d * g * ((-(2025 * alpha^4)/10976) + (3645 * alpha^3)/43904 -
                  (7515 * alpha^2)/87808 + (405 * alpha)/12544 + 6795/43904) +
        2 * d * h * ((-(225 * alpha^4)/3584) - (285 * alpha^3)/25088 -
                  (55 * alpha^2)/784 + (65 * alpha)/896 + 225/3136) + 0 +
         e^2 * ((-(128 * alpha^4)/343) + (96 * alpha^3)/343 - (24 *
                  alpha^2)/343 - (22 * alpha)/343 + 78/343) + 2 * e * f *
         ((-(225 * alpha^4)/686) + (225 * alpha^3)/784 - (3273 * alpha^2)/21952 +
                  (717 * alpha)/21952 + 54/343) + 2 * e * g * ((-(72 * 
         alpha^4/343) + (57 * alpha^3)/343 - (181 * alpha^2)/1372 +
         (239 * alpha)/2744 + 243/2744) + 2 * e * h * ((-alpha^4/14) +
         (9 * alpha^3)/784 - (159 * alpha^2)/3136 + (5 * alpha)/64 +
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51/1568) + 0 + f^2 * ((-(50625 * alpha^4)/175616) + (50625 *
           alpha^3)/175616 - (2025 * alpha^2)/10976 + (2025 * alpha)/21952 +
           2025/21952) + 2 * f * g * ((-(2025 * alpha^4)/10976) + (7425 *
           alpha^3)/43904 - (11043 * alpha^2)/87808 + (177 * alpha)/1792 +
           465/10976) + 2 * f * h * ((-(225 * alpha^4)/3584) + (225 *
           alpha^3)/12544 - (633 * alpha^2)/25088 + (15 * alpha)/256 +
           9/784) + 0 + g^2 * ((-(81 * alpha^4)/686) + (135 * alpha^3)/1372 -
            (27 * alpha^2)/392 + (405 * alpha)/5488 + 81/5488) + 2 *
           g * h * (15/6272 - 9/224 * alpha^4 + 51/6272 * alpha^3 -
           13/12544 * alpha^2 + 55/1792 * alpha) + 0 + h^2 * (-7/512 *
           alpha^4 - 3/512 * alpha^3 + 3/256 * alpha^2 + 1/128 * alpha) +
           0 + i^2 * 0
Q5.1 \leftarrow (a^2 * 0 + 2 * a * b * (1/64 * alpha^2) + 2 * a * c *
            (1/784 + 9/196 * alpha^2 + 3/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/196 * alpha) + 2 * a * d * d * (9/784 + 9/1
           225/3136 * alpha^2 + 45/784 * alpha) + 2 * a * e * (9/196 + 2)
           4/49 * alpha^2 + 6/49 * alpha) + 2 * a * f * (25/196 + 225/3136 *
           alpha^2 + 75/392 * alpha) + 2 * a * g * (225/784 + 9/196 *
           alpha^2 + 45/196 * alpha) + 2 * a * h * (9/16 + 1/64 * alpha^2 +
           3/16 * alpha) + 2 * a * i * 1 + b^2 * (1/256 + 35/2048 *
           alpha^4 + 25/512 * alpha^3 - 27/512 * alpha^2 + 7/128 * alpha) +
           2 * b * c * (327/12544 + 45/896 * alpha^4 + 225/3136 * alpha^3 -
                       2533/25088 * alpha^2 + 1149/12544 * alpha) + 2 * b *
           d * ((1125 * alpha^4)/14336 + (2025 * alpha^3)/25088 - (2623 *
           alpha^2)/25088 + (561 * alpha)/6272 + 453/6272) + 2 * b *
           e * ((5 * alpha^4)/56 + (65 * alpha^3)/784 - (369 * alpha^2)/6272 +
            (149 * alpha)/3136 + 451/3136) + 2 * b * f * ((1125 * alpha^4)/14336 +
            (2025 * alpha^3)/25088 + (527 * alpha^2)/25088 - (45 * alpha)/3136 +
           2985/12544) + 2 * b * g * ((45 * alpha^4)/896 + (225 * alpha^3)/3136 +
            (2507 * alpha^2)/25088 - (699 * alpha)/12544 + 4359/12544) +
           2 * b * h * ((35 * alpha^4)/2048 + (25 * alpha^3)/512 + (63 *
                       alpha^2)/512 - alpha/64 + 59/128) + 2 * b * i * (9/16 + 1)
           1/64 * alpha^2 + 3/16 * alpha) + c^2 * ((405 * alpha^4)/2744 -
            (513 * alpha^2)/5488 + (27 * alpha)/343 + 3429/43904) + 2 *
           c * d * ((10125 * alpha^4)/43904 - (2025 * alpha^3)/21952 -
            (2691 * alpha^2)/175616 + (675 * alpha)/87808 + 13045/87808) +
           2 * c * e * ((90 * alpha^4)/343 - (45 * alpha^3)/343 + (197 * alpha^3)/343 + (197 * alpha^4)/343 - (45 * alpha^4)/343 + (197 * alpha^4)/343 - (45 * alpha^4)/343 + (197 * alpha^4)/343 + (197 * alpha^4)/343 - (45 * alpha^4)/343 + (197 * alpha
                       alpha^2)/2744 - (117 * alpha)/1372 + 2481/10976) + 2 *
           c * f * ((10125 * alpha^4)/43904 - (2025 * alpha^3)/21952 +
            (22509 * alpha^2)/175616 - (13941 * alpha)/87808 + 26037/87808) +
           2 * c * g * ((405 * alpha^4)/2744 + (747 * alpha^2)/5488 -
                        (57 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * ((45 * alpha)/343 + 15077/43904) + ((45 * alpha)/343 
           alpha^4)/896 + (225 * alpha^3)/3136 + (2507 * alpha^2)/25088 -
            (699 * alpha)/12544 + 4359/12544) + 2 * c * i * (225/784 +
           9/196 * alpha^2 + 45/196 * alpha) + d^2 * ((253125 * alpha^4)/702464 -
            (50625 * alpha^3)/175616 + (24975 * alpha^2)/175616 - (675 *
           alpha)/6272 + 19575/87808) + 2 * d * e * ((1125 * alpha^4)/2744 -
            (2025 * alpha^3)/5488 + (10649 * alpha^2)/43904 - (4317 *
           alpha)/21952 + 879/3136) + 2 * d * f * ((253125 * alpha^4)/702464 -
            (50625 * alpha^3)/175616 + (40725 * alpha^2)/175616 - (345 *
           alpha)/1568 + 13529/43904) + 2 * d * g * ((10125 * alpha^4)/43904 -
            (2025 * alpha^3)/21952 + (22509 * alpha^2)/175616 - (13941 *
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alpha)/87808 + 26037/87808) + 2 * d * h * ((1125 * alpha^4)/14336 +
         (2025 * alpha^3)/25088 + (527 * alpha^2)/25088 - (45 * alpha)/3136 +
         2985/12544) + 2 * d * i * (25/196 + 225/3136 * alpha^2 +
        75/392 * alpha) + e^2 * ((160 * alpha^4)/343 - (160 * alpha^3)/343 +
         (108 * alpha^2)/343 - (82 * alpha)/343 + 821/2744) + 2 *
         e * f * ((1125 * alpha^4)/2744 - (2025 * alpha^3)/5488 +
         (10649 * alpha^2)/43904 - (4317 * alpha)/21952 + 879/3136) +
         2 * e * g * ((90 * alpha^4)/343 - (45 * alpha^3)/343 + (197 *
                  alpha^2)/2744 - (117 * alpha)/1372 + 2481/10976) + 2 *
         e * h * ((5 * alpha^4)/56 + (65 * alpha^3)/784 - (369 * alpha^2)/6272 +
         (149 * alpha)/3136 + 451/3136) + 2 * e * i * (9/196 + 4/49 *
         alpha^2 + 6/49 * alpha) + f^2 * ((253125 * alpha^4)/702464 -
         (50625 * alpha^3)/175616 + (24975 * alpha^2)/175616 - (675 *
         alpha)/6272 + 19575/87808) + 2 * f * g * ((10125 * alpha^4)/43904 -
         (2025 * alpha^3)/21952 - (2691 * alpha^2)/175616 + (675 *
         alpha)/87808 + 13045/87808) + 2 * f * h * ((1125 * alpha^4)/14336 +
         (2025 * alpha^3)/25088 - (2623 * alpha^2)/25088 + (561 *
         alpha)/6272 + 453/6272) + 2 * f * i * (9/784 + 225/3136 *
         alpha^2 + 45/784 * alpha) + g^2 * ((405 * alpha^4)/2744 -
         (513 * alpha^2)/5488 + (27 * alpha)/343 + 3429/43904) + 2 *
         g * h * (327/12544 + 45/896 * alpha^4 + 225/3136 * alpha^3 -
        2533/25088 * alpha^2 + 1149/12544 * alpha) + 2 * g * i *
         (1/784 + 9/196 * alpha^2 + 3/196 * alpha) + h^2 * (1/256 + 9/196 * alpha) + h^2 * (1/256 + 9
        35/2048 * alpha^4 + 25/512 * alpha^3 - 27/512 * alpha^2 +
        7/128 * alpha) + 2 * h * i * (1/64 * alpha^2) + i^2 * 0)
Q4.1 \leftarrow (a^2 * 0 + 2 * a * b * 0 + 2 * a * c * 0 + 2 * a * d *
        0 + 2 * a * e * 0 + 2 * a * f * 0 + 2 * a * g * 0 + 2 * a *
        h * 0 + 2 * a * i * 0 + b^2 * (-7/512 * alpha^4 - 3/512 *
         alpha^3 + 3/256 * alpha^2 + 1/128 * alpha) + 2 * b * c *
         (15/6272 - 9/224 * alpha^4 + 51/6272 * alpha^3 - 13/12544 *
                  alpha^2 + 55/1792 * alpha) + 2 * b * d * ((-(225 * alpha^4)/3584) +
         (225 * alpha^3)/12544 - (633 * alpha^2)/25088 + (15 * alpha)/256 +
         9/784) + 2 * b * e * ((-alpha^4/14) + (9 * alpha^3)/784 -
         (159 * alpha^2)/3136 + (5 * alpha)/64 + 51/1568) + 2 * b *
        f * ((-(225 * alpha^4)/3584) - (285 * alpha^3)/25088 - (55 *
         alpha^2)/784 + (65 * alpha)/896 + 225/3136) + 2 * b * g *
         ((-(9 * alpha^4)/224) - (243 * alpha^3)/6272 - (993 * alpha^2)/12544 +
                  (39 * alpha)/1792 + 855/6272) + 2 * b * h * ((-(7 * alpha^4)/512) -
         (3 * alpha^3)/64 - (39 * alpha^2)/512 - (25 * alpha)/256 +
         15/64) + 2 * b * i * (3/8 - 1/16 * alpha^2 - 5/16 * alpha) +
         c^2 * ((-(81 * alpha^4)/686) + (135 * alpha^3)/1372 - (27 *
                  alpha^2)/392 + (405 * alpha)/5488 + 81/5488) + 2 * c *
        d * ((-(2025 * alpha^4)/10976) + (7425 * alpha^3)/43904 -
         (11043 * alpha^2)/87808 + (177 * alpha)/1792 + 465/10976) +
        2 * c * e * ((-(72 * alpha^4)/343) + (57 * alpha^3)/343 -
                  (181 * alpha^2)/1372 + (239 * alpha)/2744 + 243/2744) +
         2 * c * f * ((-(2025 * alpha^4)/10976) + (3645 * alpha^3)/43904 -
                  (7515 * alpha^2)/87808 + (405 * alpha)/12544 + 6795/43904) +
         2 * c * g * ((-(81 * alpha^4)/686) - (27 * alpha^3)/686 -
                  (9 * alpha^2)/392 - (165 * alpha)/2744 + 165/686) + 2 *
         c * h * ((-(9 * alpha^4)/224) - (705 * alpha^3)/6272 - (229 * alph
```

```
alpha^2)/12544 - (2165 * alpha)/12544 + 1077/3136) + 2 *
    c * i * (45/98 - 9/49 * alpha^2 - 27/98 * alpha) + d^2 *
    ((-(50625 * alpha^4)/175616) + (50625 * alpha^3)/175616 -
        (2025 * alpha^2)/10976 + (2025 * alpha)/21952 + 2025/21952) +
    2 * d * e * ((-(225 * alpha^4)/686) + (225 * alpha^3)/784 -
        (3273 * alpha^2)/21952 + (717 * alpha)/21952 + 54/343) +
    2 * d * f * ((-(50625 * alpha^4)/175616) + (3375 * alpha^3)/21952 -
        (5625 * alpha^2)/175616 - (5655 * alpha)/87808 + 2535/10976) +
    2 * d * g * ((-(2025 * alpha^4)/10976) - (2025 * alpha^3)/43904 +
        (7857 * alpha^2)/87808 - (2025 * alpha)/12544 + 3321/10976) +
    2 * d * h * ((-(225 * alpha^4)/3584) - (4275 * alpha^3)/25088 +
        (921 * alpha^2)/12544 - (39 * alpha)/196 + 1125/3136) +
    2 * d * i * (75/196 - 225/784 * alpha^2 - 75/784 * alpha) +
    e^2 * ((-(128 * alpha^4)/343) + (96 * alpha^3)/343 - (24 *
        alpha^2)/343 - (22 * alpha)/343 + 78/343) + 2 * e * f *
    ((-(225 * alpha^4)/686) + (15 * alpha^3)/112 + (1655 * alpha^2)/21952 -
        (3665 * alpha)/21952 + 3135/10976) + 2 * e * g * ((-(72 * alpha)/21952 + 3135/10976)) + 2 * e * g * ((-(72 * alpha)/21952 + 3135/10976))))
    alpha^4)/343) - (27 * alpha^3)/343 + (267 * alpha^2)/1372 -
    (615 * alpha)/2744 + 873/2744) + 2 * e * h * ((-alpha^4/14) -
    (159 * alpha^3)/784 + (417 * alpha^2)/3136 - (529 * alpha)/3136 +
    243/784) + 2 * e * i * (12/49 - 16/49 * alpha^2 + 4/49 *
    alpha) + f^2 * ((-(50625 * alpha^4)/175616) + (3375 * alpha^3)/175616 +
    (16875 * alpha^2)/87808 - (10125 * alpha)/43904 + 3375/10976) +
    2 * f * g * ((-(2025 * alpha^4)/10976) - (5805 * alpha^3)/43904 +
        (21465 * alpha^2)/87808 - (2715 * alpha)/12544 + 12675/43904) +
    2 * f * h * ((-(225 * alpha^4)/3584) - (2505 * alpha^3)/12544 +
        (3235 * alpha^2)/25088 - (1145 * alpha)/12544 + 705/3136) +
    2 * f * i * (45/392 - 225/784 * alpha^2 + 135/784 * alpha) +
    g^2 * ((-(81 * alpha^4)/686) - (243 * alpha^3)/1372 + (81 *
        alpha^2)/392 - (729 * alpha)/5488 + 1215/5488) + 2 *
    g * h * (405/3136 - 9/224 * alpha^4 - 999/6272 * alpha^3 +
    807/12544 * alpha^2 + 75/12544 * alpha) + 2 * g * i * (3/98 - 1)
    9/49 * alpha^2 + 15/98 * alpha) + h^2 * (3/64 - 7/512 * alpha^4 -
    45/512 * alpha^3 - 3/128 * alpha^2 + 5/64 * alpha) + 2 *
    h * i * (1/16 * alpha - 1/16 * alpha^2) + i^2 * 0)
Q3.1 \leftarrow (a^2 * 0 + 2 * a * b * 0 + 2 * a * c * 0 + 2 * a * d *
    0 + 2 * a * e * 0 + 2 * a * f * 0 + 2 * a * g * 0 + 2 * a *
    h * 0 + 2 * a * i * 0 + b^2 * (7/1024 * alpha^4 - 3/512 *
    alpha^3 + 3/512 * alpha^2) + 2 * b * c * (1/12544 + 9/448 *
    alpha^4 - 117/6272 * alpha^3 + 27/1792 * alpha^2 + 37/12544 *
    alpha) + 2 * b * d * ((225 * alpha^4)/7168 - (75 * alpha^3)/3136 +
    (33 * alpha^2)/1792 + (9 * alpha)/784 + 9/12544) + 2 * b *
    e * (alpha^4/28 - (3 * alpha^3)/196 + (3 * alpha^2)/224 +
    (81 * alpha)/3136 + 9/3136) + 2 * b * f * ((225 * alpha^4)/7168 +
    (135 * alpha^3)/25088 + (15 * alpha^2)/3584 + (275 * alpha)/6272 +
    25/3136) + 2 * b * g * ((9 * alpha^4)/448 + (177 * alpha^3)/6272 +
    (3 * alpha^2)/1792 + (765 * alpha)/12544 + 225/12544) + 2 *
    b * h * ((7 * alpha^4)/1024 + (9 * alpha^3)/256 + (3 * alpha^2)/128 +
    (9 * alpha)/128 + 9/256) + 2 * b * i * (1/16 + 3/32 * alpha^2 +
    1/16 * alpha) + c^2 * ((81 * alpha^4)/1372 - (81 * alpha^3)/1372 +
    (81 * alpha^2)/2744 + (87 * alpha)/5488 + 33/21952) + 2 *
```

```
c * d * ((2025 * alpha^4)/21952 - (3375 * alpha^3)/43904 +
         (261 * alpha^2)/12544 + (3453 * alpha)/87808 + 573/87808) +
         2 * c * e * ((36 * alpha^4)/343 - (18 * alpha^3)/343 - (9 *
                  alpha^2)/686 + (185 * alpha)/2744 + 25/1372) + 2 * c *
        f * ((2025 * alpha^4)/21952 + (405 * alpha^3)/43904 - (675 *
         alpha^2)/12544 + (7695 * alpha)/87808 + 3555/87808) + 2 *
         c * g * ((81 * alpha^4)/1372 + (27 * alpha^3)/343 - (171 *
        alpha^2)/2744 + (111 * alpha)/1372 + 1713/21952) + 2 * c *
        h * ((9 * alpha^4)/448 + (639 * alpha^3)/6272 + (261 * alpha^2)/12544 +
         (271 * alpha)/12544 + 1711/12544) + 2 * c * i * (87/392 + 1711/12544)
         27/98 * alpha^2 - 6/49 * alpha) + d^2 * ((50625 * alpha^4)/351232 -
         (16875 * alpha^3)/175616 - (2025 * alpha^2)/175616 + (405 *
         alpha)/5488 + 135/6272) + 2 * d * e * ((225 * alpha^4)/1372 -
         (75 * alpha^3)/1372 - (789 * alpha^2)/10976 + (45 * alpha)/448 +
         1089/21952) + 2 * d * f * ((50625 * alpha^4)/351232 + (3375 *
         alpha^3)/87808 - (5625 * alpha^2)/43904 + (4395 * alpha)/43904 +
         1185/12544) + 2 * d * g * ((2025 * alpha^4)/21952 + (6075 *
         alpha^3)/43904 - (1539 * alpha^2)/12544 + (4293 * alpha)/87808 +
         14013/87808) + 2 * d * h * ((225 * alpha^4)/7168 + (4125 *
         alpha^3)/25088 + (687 * alpha^2)/25088 - (513 * alpha)/6272 +
         1557/6272) + 2 * d * i * (285/784 + 675/1568 * alpha^2 -
         255/784 * alpha) + e^2 * ((64 * alpha^4)/343 - (48 * alpha^2)/343 +
         (36 * alpha)/343 + 135/1372) + 2 * e * f * ((225 * alpha^4)/1372 +
         (135 * alpha^3)/1372 - (1965 * alpha^2)/10976 + (205 * alpha)/3136 +
         3595/21952) + 2 * e * g * ((36 * alpha^4)/343 + (66 * alpha^3)/343 -
         (93 * alpha^2)/686 - (81 * alpha)/2744 + 333/1372) + 2 *
         e * h * (alpha^4/28 + (39 * alpha^3)/196 + (93 * alpha^2)/1568 -
         (585 * alpha)/3136 + 1035/3136) + 2 * e * i * (41/98 + 24/49 *
         alpha^2 - 20/49 * alpha) + f^2 * ((50625 * alpha^4)/351232 +
         (30375 * alpha^3)/175616 - (30375 * alpha^2)/175616 - (375 *
         alpha)/21952 + 375/1568) + 2 * f * g * ((2025 * alpha^4)/21952 +
         (9855 * alpha^3)/43904 - (1035 * alpha^2)/12544 - (11625 *
         alpha)/87808 + 27075/87808) + 2 * f * h * ((225 * alpha^4)/7168 + 
         (1215 * alpha^3)/6272 + (1425 * alpha^2)/12544 - (785 * alpha)/3136 +
        4465/12544) + 2 * f * i * (285/784 + 675/1568 * alpha^2 -
         255/784 * alpha) + g^2 * ((81 * alpha^4)/1372 + (297 * alpha^3)/1372 +
         (81 * alpha^2)/2744 - (1215 * alpha)/5488 + 7425/21952) +
         2 * g * h * (3951/12544 + 9/448 * alpha^4 + 933/6272 * alpha^3 +
                  2109/12544 * alpha^2 - 3033/12544 * alpha) + 2 * g *
         i * (87/392 + 27/98 * alpha^2 - 6/49 * alpha) + h^2 * (27/128 + 27/98 * alpha) + h^2 * (27/128 + 
        7/1024 * alpha^4 + 39/512 * alpha^3 + 93/512 * alpha^2 -
         9/64 * alpha) + 2 * h * i * (1/16 + 3/32 * alpha^2 + 1/16 *
         alpha) + i^2 * 0
Q2.1 \leftarrow (a^2 * 0 + 2 * a * b * 0 + 2 * a * c * 0 + 2 * a * d *
        0 + 2 * a * e * 0 + 2 * a * f * 0 + 2 * a * g * 0 + 2 * a *
        h * 0 + 2 * a * i * 0 + b^2 * (-1/512 * alpha^4 + 1/512 *
         alpha^3) + 2 * b * c * (-9/1568 * alpha^4 + 27/6272 * alpha^3 +
        17/12544 * alpha^2 + 1/12544 * alpha) + 2 * b * d * ((-(225 *
        alpha^4)/25088) + (45 * alpha^3)/12544 + (117 * alpha^2)/25088 +
         (9 * alpha)/12544) + 2 * b * e * ((-alpha^4/98) - alpha^3/784 +
         (27 * alpha^2)/3136 + (9 * alpha)/3136) + 2 * b * f * ((-(225 * alpha^2)/3136)) + 2 * b * f * ((-(225 * alpha^2)/3136)) + 2 * b * f * ((-(225 * alpha^2)/3136)) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * f * ((-(225 * alpha^2)/3136))) + 2 * b * ((-(225 * alpha^2)/3136))) + 2 * ((-(225 * alpha^2)/3136))) + ((-(225 * alpha^2)/313
```

```
alpha^4)/25088) - (225 * alpha^3)/25088 + (125 * alpha^2)/12544 +
(25 * alpha)/3136) + 2 * b * g * ((-(9 * alpha^4)/1568) -
(99 * alpha^3)/6272 + (45 * alpha^2)/12544 + (225 * alpha)/12544) +
2 * b * h * ((-alpha^4/512) - alpha^3/64 - (9 * alpha^2)/512 +
       (9 * alpha)/256) + 2 * b * i * (1/16 * alpha - 1/16 *
alpha^2) + c^2 * ((-(81 * alpha^4)/4802) + (81 * alpha^3)/9604 +
(135 * alpha^2)/19208 + (51 * alpha)/38416 + 3/38416) + 2 *
c * d * ((-(2025 * alpha^4)/76832) + (1215 * alpha^3)/307328 +
(10089 * alpha^2)/614656 + (3375 * alpha)/614656 + 153/307328) +
2 * c * e * ((-(72 * alpha^4)/2401) - (27 * alpha^3)/2401 +
       (239 * alpha^2)/9604 + (281 * alpha)/19208 + 33/19208) +
2 * c * f * ((-(2025 * alpha^4)/76832) - (10125 * alpha^3)/307328 +
       (14625 * alpha^2)/614656 + (19125 * alpha)/614656 + 675/153664) +
2 * c * g * ((-(81 * alpha^4)/4802) - (243 * alpha^3)/4802 +
       (9 * alpha^2)/19208 + (1107 * alpha)/19208 + 45/4802) +
2 * c * h * ((-(9 * alpha^4)/1568) - (297 * alpha^3)/6272 -
       (775 * alpha^2)/12544 + (1219 * alpha)/12544 + 111/6272) +
2 * c * i * (3/98 - 9/49 * alpha^2 + 15/98 * alpha) + d^2 *
((-(50625 * alpha^4)/1229312) - (10125 * alpha^3)/1229312 +
       (18225 * alpha^2)/614656 + (5265 * alpha)/307328 + 405/153664) +
2 * d * e * ((-(225 * alpha^4)/4802) - (1305 * alpha^3)/38416 +
       (5499 * alpha^2)/153664 + (5679 * alpha)/153664 + 621/76832) +
2 * d * f * ((-(50625 * alpha^4)/1229312) - (10125 * alpha^3)/153664 +
       (28575 * alpha^2)/1229312 + (39825 * alpha)/614656 +
      2925/153664) + 2 * d * g * ((-(2025 * alpha^4)/76832) -
(27135 * alpha^3)/307328 - (13851 * alpha^2)/614656 + (60831 *
alpha)/614656 + 11745/307328) + 2 * d * h * ((-(225 * alpha^4)/25088) -
(1935 * alpha^3)/25088 - (747 * alpha^2)/6272 + (855 * alpha)/6272 +
27/392) + 2 * d * i * (45/392 - 225/784 * alpha^2 + 135/784 *
alpha) + e^2 * ((-(128 * alpha^4)/2401) - (160 * alpha^3)/2401 +
(72 * alpha^2)/2401 + (162 * alpha)/2401 + 54/2401) + 2 *
e * f * ((-(225 * alpha^4)/4802) - (3825 * alpha^3)/38416 -
(325 * alpha^2)/153664 + (15325 * alpha)/153664 + 1875/38416) +
2 * e * g * ((-(72 * alpha^4)/2401) - (279 * alpha^3)/2401 -
       (657 * alpha^2)/9604 + (2367 * alpha)/19208 + 1755/19208) +
2 * e * h * ((-alpha^4/98) - (73 * alpha^3)/784 - (549 *
      alpha^2)/3136 + (387 * alpha)/3136 + 243/1568) + 2 *
e * i * (12/49 - 16/49 * alpha^2 + 4/49 * alpha) + f^2 *
((-(50625 * alpha^4)/1229312) - (151875 * alpha^3)/1229312 -
       (16875 * alpha^2)/307328 + (9375 * alpha)/76832 + 1875/19208) +
2 * f * g * ((-(2025 * alpha^4)/76832) - (38475 * alpha^3)/307328 -
       (79875 * alpha^2)/614656 + (69525 * alpha)/614656 + 25875/153664) +
2 * f * h * ((-(225 * alpha^4)/25088) - (1125 * alpha^3)/12544 -
       (5375 * alpha^2)/25088 + (625 * alpha)/12544 + 825/3136) +
2 * f * i * (75/196 - 225/784 * alpha^2 - 75/784 * alpha) +
g^2 * ((-(81 * alpha^4)/4802) - (1053 * alpha^3)/9604 - (3645 * alpha^3)/9604 - (3645 * alpha^4)/4802)
      alpha^2)/19208 + (2025 * alpha)/38416 + 10125/38416) +
2 * g * h * (2295/6272 - 9/1568 * alpha^4 - 423/6272 * alpha^3 -
      2763/12544 * alpha^2 - 909/12544 * alpha) + 2 * g * i *
(45/98 - 9/49 * alpha^2 - 27/98 * alpha) + h^2 * (27/64 - 9/49 * alpha) + h^2 * (27/64 - 9/
1/512 * alpha^4 - 17/512 * alpha^3 - 45/256 * alpha^2 - 27/128 *
alpha) + 2 * h * i * (3/8 - 1/16 * alpha^2 - 5/16 * alpha) +
i^2 * 0
```

```
Q1.1 \leftarrow (a^2 * 0 + 2 * a * b * 0 + 2 * a * c * 0 + 2 * a * d *
        0 + 2 * a * e * 0 + 2 * a * f * 0 + 2 * a * g * 0 + 2 * a *
        h * 0 + 2 * a * i * 0 + b^2 * (1/4096 * alpha^4) + 2 * b *
         c * (9/12544 * alpha^4 + 3/12544 * alpha^3 + 1/50176 * alpha^2) +
         2 * b * d * ((225 * alpha^4)/200704 + (45 * alpha^3)/50176 +
                  (9 * alpha^2)/50176) + 2 * b * e * (alpha^4/784 + (3 * alpha^4/784 +
        alpha^3)/1568 + (9 * alpha^2)/12544) + 2 * b * f * ((225 *
         alpha^4)/200704 + (75 * alpha^3)/25088 + (25 * alpha^2)/12544) +
         2 * b * g * ((9 * alpha^4)/12544 + (45 * alpha^3)/12544 +
                  (225 * alpha^2)/50176) + 2 * b * h * (alpha^4/4096 +
         (3 * alpha^3)/1024 + (9 * alpha^2)/1024) + 2 * b * i * (1/64 *
         alpha^2) + c^2 * ((81 * alpha^4)/38416 + (27 * alpha^3)/19208 +
         (27 * alpha^2)/76832 + (3 * alpha)/76832 + 1/614656) + 2 *
         c * d * ((2025 * alpha^4)/614656 + (2295 * alpha^3)/614656 +
         (3681 * alpha^2)/2458624 + (153 * alpha)/614656 + 9/614656) +
         2 * c * e * ((9 * alpha^4)/2401 + (33 * alpha^3)/4802 + (157 * alpha^4)/4802 + (157 * alp
                  alpha^2)/38416 + (33 * alpha)/38416 + 9/153664) + 2 *
         c * f * ((2025 * alpha^4)/614656 + (6075 * alpha^3)/614656 +
         (21825 * alpha^2)/2458624 + (675 * alpha)/307328 + 25/153664) +
         2 * c * g * ((81 * alpha^4)/38416 + (27 * alpha^3)/2401 +
                  (1287 * alpha^2)/76832 + (45 * alpha)/9604 + 225/614656) +
         2 * c * h * ((9 * alpha^4)/12544 + (111 * alpha^3)/12544 +
                  (1441 * alpha^2)/50176 + (111 * alpha)/12544 + 9/12544) +
         2 * c * i * (1/784 + 9/196 * alpha^2 + 3/196 * alpha) + d^2 *
         ((50625 * alpha^4)/9834496 + (10125 * alpha^3)/1229312 +
                  (6075 * alpha^2)/1229312 + (405 * alpha)/307328 + 81/614656) +
        2 * d * e * ((225 * alpha^4)/38416 + (1035 * alpha^3)/76832 +
                  (6921 * alpha^2)/614656 + (621 * alpha)/153664 + 81/153664) +
         2 * d * f * ((50625 * alpha^4)/9834496 + (43875 * alpha^3)/2458624 +
                  (51525 * alpha^2)/2458624 + (2925 * alpha)/307328 + 225/153664) +
         2 * d * g * ((2025 * alpha^4)/614656 + (11745 * alpha^3)/614656 +
                  (84321 * alpha^2)/2458624 + (11745 * alpha)/614656 +
                  2025/614656) + 2 * d * h * ((225 * alpha^4)/200704 +
         (45 * alpha^3)/3136 + (1287 * alpha^2)/25088 + (27 * alpha)/784 +
        81/12544) + 2 * d * i * (9/784 + 225/3136 * alpha^2 + 45/784 *
        alpha) + e^2 * ((16 * alpha^4)/2401 + (48 * alpha^3)/2401 +
         (54 * alpha^2)/2401 + (27 * alpha)/2401 + 81/38416) + 2 *
         e * f * ((225 * alpha^4)/38416 + (1875 * alpha^3)/76832 +
         (22825 * alpha^2)/614656 + (1875 * alpha)/76832 + 225/38416) +
        2 * e * g * ((9 * alpha^4)/2401 + (117 * alpha^3)/4802 +
                  (2061 * alpha^2)/38416 + (1755 * alpha)/38416 + 2025/153664) +
         2 * e * h * (alpha^4/784 + (27 * alpha^3)/1568 + (873 * alpha^2)/12544 +
                  (243 * alpha)/3136 + 81/3136) + 2 * e * i * (9/196 + 1)
         4/49 * alpha^2 + 6/49 * alpha) + f^2 * ((50625 * alpha^4)/9834496 +
         (16875 * alpha^3)/614656 + (16875 * alpha^2)/307328 + (1875 *
         alpha)/38416 + 625/38416) + 2 * f * g * ((2025 * alpha^4)/614656 +
         (15525 * alpha^3)/614656 + (173025 * alpha^2)/2458624 + (25875 *
         alpha)/307328 + 5625/153664) + 2 * f * h * ((225 * alpha^4)/200704 +
         (825 * alpha^3)/50176 + (3925 * alpha^2)/50176 + (825 * alpha)/6272 +
         225/3136) + 2 * f * i * (25/196 + 225/3136 * alpha^2 + 75/392 *
         alpha) + g^2 * ((81 * alpha^4)/38416 + (405 * alpha^3)/19208 +
         (6075 * alpha^2)/76832 + (10125 * alpha)/76832 + 50625/614656) +
```

```
2 * g * h * (2025/12544 + 9/12544 * alpha^4 + 153/12544 * alpha^3 + 3681/50176 * alpha^2 + 2295/12544 * alpha) + 2 * g * i * (225/784 + 9/196 * alpha^2 + 45/196 * alpha) + h^2 * (81/256 + 1/4096 * alpha^4 + 3/512 * alpha^3 + 27/512 * alpha^2 + 27/128 * alpha) + 2 * h * i * (9/16 + 1/64 * alpha^2 + 3/16 * alpha) + i^2 * 1)

prob1 <- c(Q9.1, Q8.1, Q7.1, Q6.1, Q5.1, Q4.1, Q3.1, Q2.1, Q1.1)
```

This generates prob

```
alpha = 0
Q9 \leftarrow (a^2 * 1 + 2 * a * b * (9/16 + 1/64 * alpha^2 + 3/16 *
    alpha) + 2 * a * c * (225/784 + 9/196 * alpha^2 + 45/196 *
    alpha) + 2 * a * d * (25/196 + 225/3136 * alpha^2 + 75/392 *
    alpha) + 2 * a * e * (9/196 + 4/49 * alpha^2 + 6/49 * alpha) +
    2 * a * f * (9/784 + 225/3136 * alpha^2 + 45/784 * alpha) +
   2 * a * g * (1/784 + 9/196 * alpha^2 + 3/196 * alpha) + 2 *
    a * h * (1/64 * alpha^2) + 0 + b^2 * (81/256 + 1/4096 * alpha^4 +
    3/512 * alpha^3 + 27/512 * alpha^2 + 27/128 * alpha) + 2 *
   b * c * (2025/12544 + 9/12544 * alpha^4 + 153/12544 * alpha^3 +
   3681/50176 * alpha^2 + 2295/12544 * alpha) + 2 * b * d *
    ((225 * alpha^4)/200704 + (825 * alpha^3)/50176 + (3925 *
       alpha^2)/50176 + (825 * alpha)/6272 + 225/3136) + 2 *
   b * e * (alpha^4/784 + (27 * alpha^3)/1568 + (873 * alpha^2)/12544 +
    (243 * alpha)/3136 + 81/3136) + 2 * b * f * ((225 * alpha^4)/200704 +
    (45 * alpha^3)/3136 + (1287 * alpha^2)/25088 + (27 * alpha)/784 +
   81/12544) + 2 * b * g * ((9 * alpha^4)/12544 + (111 * alpha^3)/12544 +
    (1441 * alpha^2)/50176 + (111 * alpha)/12544 + 9/12544) +
    2 * b * h * (alpha^4/4096 + (3 * alpha^3)/1024 + (9 * alpha^2)/1024) +
   0 + c^2 * ((81 * alpha^4)/38416 + (405 * alpha^3)/19208 +
    (6075 * alpha^2)/76832 + (10125 * alpha)/76832 + 50625/614656) +
    2 * c * d * ((2025 * alpha^4)/614656 + (15525 * alpha^3)/614656 +
        (173025 * alpha^2)/2458624 + (25875 * alpha)/307328 +
        5625/153664) + 2 * c * e * ((9 * alpha^4)/2401 + (117 *
    alpha^3)/4802 + (2061 * alpha^2)/38416 + (1755 * alpha)/38416 +
    2025/153664) + 2 * c * f * ((2025 * alpha^4)/614656 + (11745 *
    alpha^3)/614656 + (84321 * alpha^2)/2458624 + (11745 * alpha)/614656 +
    2025/614656) + 2 * c * g * ((81 * alpha^4)/38416 + (27 *
    alpha^3)/2401 + (1287 * alpha^2)/76832 + (45 * alpha)/9604 +
    225/614656) + 2 * c * h * ((9 * alpha^4)/12544 + (45 * alpha^3)/12544 +
    (225 * alpha^2)/50176) + 0 + d^2 * ((50625 * alpha^4)/9834496 +
    (16875 * alpha^3)/614656 + (16875 * alpha^2)/307328 + (1875 *
    alpha)/38416 + 625/38416) + 2 * d * e * ((225 * alpha^4)/38416 +
    (1875 * alpha^3)/76832 + (22825 * alpha^2)/614656 + (1875 *
    alpha)/76832 + 225/38416) + 2 * d * f * ((50625 * alpha^4)/9834496 +
    (43875 * alpha^3)/2458624 + (51525 * alpha^2)/2458624 + (2925 *
    alpha)/307328 + 225/153664) + 2 * d * g * ((2025 * alpha^4)/614656 +
    (6075 * alpha^3)/614656 + (21825 * alpha^2)/2458624 + (675 *
    alpha)/307328 + 25/153664) + 2 * d * h * ((225 * alpha^4)/200704 +
    (75 * alpha^3)/25088 + (25 * alpha^2)/12544) + 0 + e^2 *
    ((16 * alpha^4)/2401 + (48 * alpha^3)/2401 + (54 * alpha^2)/2401 +
        (27 * alpha)/2401 + 81/38416) + 2 * e * f * ((225 * alpha^4)/38416 +
    (1035 * alpha^3)/76832 + (6921 * alpha^2)/614656 + (621 *
```

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alpha)/153664 + 81/153664) + 2 * e * g * ((9 * alpha^4)/2401 +
            (33 * alpha^3)/4802 + (157 * alpha^2)/38416 + (33 * alpha)/38416 +
           9/153664) + 2 * e * h * (alpha^4/784 + (3 * alpha^3)/1568 +
            (9 * alpha^2)/12544) + 0 + f^2 * ((50625 * alpha^4)/9834496 +
            (10125 * alpha^3)/1229312 + (6075 * alpha^2)/1229312 + (405 *
           alpha)/307328 + 81/614656) + 2 * f * g * ((2025 * alpha^4)/614656 +
            (2295 * alpha^3)/614656 + (3681 * alpha^2)/2458624 + (153 *
           alpha)/614656 + 9/614656) + 2 * f * h * ((225 * alpha^4)/200704 +
            (45 * alpha^3)/50176 + (9 * alpha^2)/50176) + 0 + g^2 * ((81 * alpha^3)/50176) + 0 + g^2 * ((81 * alpha^3)/50176) + 0 + g^3 + g^4 
           alpha^4)/38416 + (27 * alpha^3)/19208 + (27 * alpha^2)/76832 +
            (3 * alpha)/76832 + 1/614656) + 2 * g * h * (9/12544 * alpha^4 +
           3/12544 * alpha^3 + 1/50176 * alpha^2) + 0 + h^2 * (1/4096 *
           alpha^4) + 0 + i^2 * 0)
Q8 \leftarrow (a^2 * 0 + 2 * a * b * (3/8 - 1/16 * alpha^2 - 5/16 * alpha) +
           2 * a * c * (45/98 - 9/49 * alpha^2 - 27/98 * alpha) + 2 *
           a * d * (75/196 - 225/784 * alpha^2 - 75/784 * alpha) + 2 *
           a * e * (12/49 - 16/49 * alpha^2 + 4/49 * alpha) + 2 * a *
           f * (45/392 - 225/784 * alpha^2 + 135/784 * alpha) + 2 *
           a * g * (3/98 - 9/49 * alpha^2 + 15/98 * alpha) + 2 * a *
           h * (1/16 * alpha - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 * (27/64 - 1/16 * alpha^2) + 0 + b^2 
           1/512 * alpha^4 - 17/512 * alpha^3 - 45/256 * alpha^2 - 27/128 *
           alpha) + 2 * b * c * (2295/6272 - 9/1568 * alpha^4 - 423/6272 *
           alpha^3 - 2763/12544 * alpha^2 - 909/12544 * alpha) + 2 *
           b * d * ((-(225 * alpha^4)/25088) - (1125 * alpha^3)/12544 -
            (5375 * alpha^2)/25088 + (625 * alpha)/12544 + 825/3136) +
           2 * b * e * ((-alpha^4/98) - (73 * alpha^3)/784 - (549 *
                       alpha^2)/3136 + (387 * alpha)/3136 + 243/1568) + 2 *
           b * f * ((-(225 * alpha^4)/25088) - (1935 * alpha^3)/25088 -
            (747 * alpha^2)/6272 + (855 * alpha)/6272 + 27/392) + 2 *
           b * g * ((-(9 * alpha^4)/1568) - (297 * alpha^3)/6272 - (775 *
           alpha^2)/12544 + (1219 * alpha)/12544 + 111/6272) + 2 * b *
           h * ((-alpha^4/512) - alpha^3/64 - (9 * alpha^2)/512 + (9 *
           alpha)/256) + 0 + c^2 * ((-(81 * alpha^4)/4802) - (1053 *
           alpha^3)/9604 - (3645 * alpha^2)/19208 + (2025 * alpha)/38416 +
           10125/38416) + 2 * c * d * ((-(2025 * alpha^4)/76832) - (38475 *
           alpha^3)/307328 - (79875 * alpha^2)/614656 + (69525 * alpha)/614656 +
           25875/153664) + 2 * c * e * ((-(72 * alpha^4)/2401) - (279 *
           alpha^3)/2401 - (657 * alpha^2)/9604 + (2367 * alpha)/19208 +
           1755/19208) + 2 * c * f * ((-(2025 * alpha^4)/76832) - (27135 *
           alpha^3)/307328 - (13851 * alpha^2)/614656 + (60831 * alpha)/614656 +
           11745/307328) + 2 * c * g * ((-(81 * alpha^4)/4802) - (243 *
           alpha^3)/4802 + (9 * alpha^2)/19208 + (1107 * alpha)/19208 +
           45/4802) + 2 * c * h * ((-(9 * alpha^4)/1568) - (99 * alpha^3)/6272 +
            (45 * alpha^2)/12544 + (225 * alpha)/12544) + 0 + d^2 * ((-(50625 * alpha^2)/12544) + 0 + d^2 * ((-(50625 * alpha^2)/12544)) + 0 + d^2 * ((-(50625 * alpha^2)/12544))) + ((-(50625 * alpha^2)/12544)) + ((-(50625 * alpha^2)/12544)) + ((-(50625 * alpha^2)/12544)) + ((-(50625 * alpha^2)/12544))) + ((-(50625 * alpha^2)/12544)) + ((-(50625 * alpha^2)/12544))) + ((-(50625 * alpha^2)/12544)) + ((-(50625 * alpha^2)/12544)) + ((-(50625 * alpha^2)/12544))) + ((-(50625 * alpha^2)/12544)) + ((-(50625 * alpha^2)/1254)) + ((-(50625 * alpha^2)/12
           alpha^4)/1229312) - (151875 * alpha^3)/1229312 - (16875 *
           alpha^2)/307328 + (9375 * alpha)/76832 + 1875/19208) + 2 *
           d * e * ((-(225 * alpha^4)/4802) - (3825 * alpha^3)/38416 -
            (325 * alpha^2)/153664 + (15325 * alpha)/153664 + 1875/38416) +
           2 * d * f * ((-(50625 * alpha^4)/1229312) - (10125 * alpha^3)/153664 +
                       (28575 * alpha^2)/1229312 + (39825 * alpha)/614656 +
                       2925/153664) + 2 * d * g * ((-(2025 * alpha^4)/76832) -
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(10125 * alpha^3)/307328 + (14625 * alpha^2)/614656 + (19125 *
         alpha)/614656 + 675/153664) + 2 * d * h * ((-(225 * alpha^4)/25088) -
         (225 * alpha^3)/25088 + (125 * alpha^2)/12544 + (25 * alpha)/3136) +
         0 + e^2 * ((-(128 * alpha^4)/2401) - (160 * alpha^3)/2401 +
         (72 * alpha^2)/2401 + (162 * alpha)/2401 + 54/2401) + 2 *
         e * f * ((-(225 * alpha^4)/4802) - (1305 * alpha^3)/38416 +
         (5499 * alpha^2)/153664 + (5679 * alpha)/153664 + 621/76832) +
         2 * e * g * ((-(72 * alpha^4)/2401) - (27 * alpha^3)/2401 +
                  (239 * alpha^2)/9604 + (281 * alpha)/19208 + 33/19208) +
         2 * e * h * ((-alpha^4/98) - alpha^3/784 + (27 * alpha^2)/3136 +
                  (9 * alpha)/3136) + 0 + f^2 * ((-(50625 * alpha^4)/1229312) -
         (10125 * alpha^3)/1229312 + (18225 * alpha^2)/614656 + (5265 *
         alpha)/307328 + 405/153664) + 2 * f * g * ((-(2025 * alpha^4)/76832) +
         (1215 * alpha^3)/307328 + (10089 * alpha^2)/614656 + (3375 *
         alpha)/614656 + 153/307328) + 2 * f * h * ((-(225 * alpha^4)/25088) +
         (45 * alpha^3)/12544 + (117 * alpha^2)/25088 + (9 * alpha)/12544) +
         0 + g^2 * ((-(81 * alpha^4)/4802) + (81 * alpha^3)/9604 +
         (135 * alpha^2)/19208 + (51 * alpha)/38416 + 3/38416) + 2 *
        g * h * (-9/1568 * alpha^4 + 27/6272 * alpha^3 + 17/12544 *
        alpha^2 + 1/12544 * alpha) + 0 + h^2 * (-1/512 * alpha^4 +
         1/512 * alpha^3) + 0 + i^2 * 0
Q7 \leftarrow (a^2 * 0 + 2 * a * b * (1/16 + 3/32 * alpha^2 + 1/16 *
         alpha) + 2 * a * c * (87/392 + 27/98 * alpha2 - 6/49 * alpha3 +
        2 * a * d * (285/784 + 675/1568 * alpha^2 - 255/784 * alpha) +
        2 * a * e * (41/98 + 24/49 * alpha^2 - 20/49 * alpha) + 2 *
        a * f * (285/784 + 675/1568 * alpha^2 - 255/784 * alpha) +
        2 * a * g * (87/392 + 27/98 * alpha^2 - 6/49 * alpha) + 2 *
         a * h * (1/16 + 3/32 * alpha^2 + 1/16 * alpha) + 0 + b^2 *
         (27/128 + 7/1024 * alpha^4 + 39/512 * alpha^3 + 93/512 *
                  alpha^2 - 9/64 * alpha) + 2 * b * c * (3951/12544 + 9/448 *
         alpha^4 + 933/6272 * alpha^3 + 2109/12544 * alpha^2 - 3033/12544 *
         alpha) + 2 * b * d * ((225 * alpha^4)/7168 + (1215 * alpha^3)/6272 +
         (1425 * alpha^2)/12544 - (785 * alpha)/3136 + 4465/12544) +
         2 * b * e * (alpha^4/28 + (39 * alpha^3)/196 + (93 * alpha^2)/1568 -
                  (585 * alpha)/3136 + 1035/3136) + 2 * b * f * ((225 *
         alpha^4)/7168 + (4125 * alpha^3)/25088 + (687 * alpha^2)/25088 -
         (513 * alpha)/6272 + 1557/6272) + 2 * b * g * ((9 * alpha^4)/448 +
         (639 * alpha^3)/6272 + (261 * alpha^2)/12544 + (271 * alpha)/12544 +
         1711/12544) + 2 * b * h * ((7 * alpha^4)/1024 + (9 * alpha^3)/256 +
         (3 * alpha^2)/128 + (9 * alpha)/128 + 9/256) + 0 + c^2 *
         ((81 * alpha^4)/1372 + (297 * alpha^3)/1372 + (81 * alpha^2)/2744 -
                  (1215 * alpha)/5488 + 7425/21952) + 2 * c * d * ((2025 * alpha)/5488 + 7425/21952) + 2 * c * d * ((2025 * alpha)/5488) + ((2
         alpha^4)/21952 + (9855 * alpha^3)/43904 - (1035 * alpha^2)/12544 -
         (11625 * alpha)/87808 + 27075/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * c * e * ((36 * alpha)/87808) + 2 * ((3
         alpha^4)/343 + (66 * alpha^3)/343 - (93 * alpha^2)/686 -
         (81 * alpha)/2744 + 333/1372) + 2 * c * f * ((2025 * alpha^4)/21952 +
         (6075 * alpha^3)/43904 - (1539 * alpha^2)/12544 + (4293 *
         alpha)/87808 + 14013/87808) + 2 * c * g * ((81 * alpha^4)/1372 +
         (27 * alpha^3)/343 - (171 * alpha^2)/2744 + (111 * alpha)/1372 +
         1713/21952) + 2 * c * h * ((9 * alpha^4)/448 + (177 * alpha^3)/6272 +
         (3 * alpha^2)/1792 + (765 * alpha)/12544 + 225/12544) + 0 +
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d^2 * ((50625 * alpha^4)/351232 + (30375 * alpha^3)/175616 -
             (30375 * alpha^2)/175616 - (375 * alpha)/21952 + 375/1568) +
      2 * d * e * ((225 * alpha^4)/1372 + (135 * alpha^3)/1372 -
             (1965 * alpha^2)/10976 + (205 * alpha)/3136 + 3595/21952) +
      2 * d * f * ((50625 * alpha^4)/351232 + (3375 * alpha^3)/87808 -
             (5625 * alpha^2)/43904 + (4395 * alpha)/43904 + 1185/12544) +
      2 * d * g * ((2025 * alpha^4)/21952 + (405 * alpha^3)/43904 -
             (675 * alpha^2)/12544 + (7695 * alpha)/87808 + 3555/87808) +
      2 * d * h * ((225 * alpha^4)/7168 + (135 * alpha^3)/25088 +
             (15 * alpha^2)/3584 + (275 * alpha)/6272 + 25/3136) +
      0 + e^2 * ((64 * alpha^4)/343 - (48 * alpha^2)/343 + (36 *
      alpha)/343 + 135/1372) + 2 * e * f * ((225 * alpha^4)/1372 -
       (75 * alpha^3)/1372 - (789 * alpha^2)/10976 + (45 * alpha)/448 +
      1089/21952) + 2 * e * g * ((36 * alpha^4)/343 - (18 * alpha^3)/343 -
       (9 * alpha^2)/686 + (185 * alpha)/2744 + 25/1372) + 2 * e *
      h * (alpha^4/28 - (3 * alpha^3)/196 + (3 * alpha^2)/224 +
       (81 * alpha)/3136 + 9/3136) + 0 + f^2 * ((50625 * alpha^4)/351232 -
       (16875 * alpha^3)/175616 - (2025 * alpha^2)/175616 + (405 *
      alpha)/5488 + 135/6272) + 2 * f * g * ((2025 * alpha^4)/21952 -
       (3375 * alpha^3)/43904 + (261 * alpha^2)/12544 + (3453 *
      alpha)/87808 + 573/87808) + 2 * f * h * ((225 * alpha^4)/7168 -
       (75 * alpha^3)/3136 + (33 * alpha^2)/1792 + (9 * alpha)/784 +
      9/12544) + 0 + g^2 * ((81 * alpha^4)/1372 - (81 * alpha^3)/1372 +
       (81 * alpha^2)/2744 + (87 * alpha)/5488 + 33/21952) + 2 *
      g * h * (1/12544 + 9/448 * alpha^4 - 117/6272 * alpha^3 +
      27/1792 * alpha^2 + 37/12544 * alpha) + 0 + h^2 * (7/1024 *
      alpha^4 - 3/512 * alpha^3 + 3/512 * alpha^2) + 0 + i^2 *
      0)
Q6 \leftarrow (a^2 * 0 + 2 * a * b * (1/16 * alpha - 1/16 * alpha^2) +
      2 * a * c * (3/98 - 9/49 * alpha^2 + 15/98 * alpha) + 2 *
      a * d * (45/392 - 225/784 * alpha^2 + 135/784 * alpha) +
      2 * a * e * (12/49 - 16/49 * alpha^2 + 4/49 * alpha) + 2 *
      a * f * (75/196 - 225/784 * alpha^2 - 75/784 * alpha) + 2 *
      a * g * (45/98 - 9/49 * alpha^2 - 27/98 * alpha) + 2 * a *
      h * (3/8 - 1/16 * alpha^2 - 5/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alpha) + 0 + b^2 * (3/64 - 1/16 * alp
      7/512 * alpha^4 - 45/512 * alpha^3 - 3/128 * alpha^2 + 5/64 *
      alpha) + 2 * b * c * (405/3136 - 9/224 * alpha^4 - 999/6272 *
      alpha^3 + 807/12544 * alpha^2 + 75/12544 * alpha) + 2 * b *
      d * ((-(225 * alpha^4)/3584) - (2505 * alpha^3)/12544 + (3235 *
      alpha^2)/25088 - (1145 * alpha)/12544 + 705/3136) + 2 * b *
      e * ((-alpha^4/14) - (159 * alpha^3)/784 + (417 * alpha^2)/3136 -
       (529 * alpha)/3136 + 243/784) + 2 * b * f * ((-(225 * alpha^4)/3584) -
       (4275 * alpha^3)/25088 + (921 * alpha^2)/12544 - (39 * alpha)/196 +
      1125/3136) + 2 * b * g * ((-(9 * alpha^4)/224) - (705 * alpha^3)/6272 -
       (229 * alpha^2)/12544 - (2165 * alpha)/12544 + 1077/3136) +
      2 * b * h * ((-(7 * alpha^4)/512) - (3 * alpha^3)/64 - (39 * alpha^3)/64) - (39 * alpha^3)/64) - (39 * alpha^3)/64)
             alpha^2)/512 - (25 * alpha)/256 + 15/64) + 0 + c^2 *
       ((-(81 * alpha^4)/686) - (243 * alpha^3)/1372 + (81 * alpha^2)/392 -
             (729 * alpha)/5488 + 1215/5488) + 2 * c * d * ((-(2025 * 
      alpha^4)/10976) - (5805 * alpha^3)/43904 + (21465 * alpha^2)/87808 -
       (2715 * alpha)/12544 + 12675/43904) + 2 * c * e * ((-(72 * alpha)/12544 + 12675/43904)) + 2 * c * e * ((-(72 * alpha)/12544 + 12675/43904))))
```

```
alpha^4)/343) - (27 * alpha^3)/343 + (267 * alpha^2)/1372 -
    (615 * alpha)/2744 + 873/2744) + 2 * c * f * ((-(2025 * alpha^4)/10976) -
    (2025 * alpha^3)/43904 + (7857 * alpha^2)/87808 - (2025 *
   alpha)/12544 + 3321/10976) + 2 * c * g * ((-(81 * alpha^4)/686) -
    (27 * alpha^3)/686 - (9 * alpha^2)/392 - (165 * alpha)/2744 +
   165/686) + 2 * c * h * ((-(9 * alpha^4)/224) - (243 * alpha^3)/6272 -
    (993 * alpha^2)/12544 + (39 * alpha)/1792 + 855/6272) + 0 +
   d^2 * ((-(50625 * alpha^4)/175616) + (3375 * alpha^3)/175616 +
        (16875 * alpha^2)/87808 - (10125 * alpha)/43904 + 3375/10976) +
   2 * d * e * ((-(225 * alpha^4)/686) + (15 * alpha^3)/112 +
        (1655 * alpha^2)/21952 - (3665 * alpha)/21952 + 3135/10976) +
   2 * d * f * ((-(50625 * alpha^4)/175616) + (3375 * alpha^3)/21952 -
        (5625 * alpha^2)/175616 - (5655 * alpha)/87808 + 2535/10976) +
   2 * d * g * ((-(2025 * alpha^4)/10976) + (3645 * alpha^3)/43904 -
        (7515 * alpha^2)/87808 + (405 * alpha)/12544 + 6795/43904) +
   2 * d * h * ((-(225 * alpha^4)/3584) - (285 * alpha^3)/25088 -
        (55 * alpha^2)/784 + (65 * alpha)/896 + 225/3136) + 0 +
   e^2 * ((-(128 * alpha^4)/343) + (96 * alpha^3)/343 - (24 *
       alpha^2)/343 - (22 * alpha)/343 + 78/343) + 2 * e * f *
    ((-(225 * alpha^4)/686) + (225 * alpha^3)/784 - (3273 * alpha^2)/21952 +
        (717 * alpha)/21952 + 54/343) + 2 * e * g * ((-(72 * 
   alpha^4)/343) + (57 * alpha^3)/343 - (181 * alpha^2)/1372 +
    (239 * alpha)/2744 + 243/2744) + 2 * e * h * ((-alpha^4/14) +
    (9 * alpha^3)/784 - (159 * alpha^2)/3136 + (5 * alpha)/64 +
   51/1568) + 0 + f^2 * ((-(50625 * alpha^4)/175616) + (50625 *
   alpha^3)/175616 - (2025 * alpha^2)/10976 + (2025 * alpha)/21952 +
   2025/21952) + 2 * f * g * ((-(2025 * alpha^4)/10976) + (7425 *
   alpha^3)/43904 - (11043 * alpha^2)/87808 + (177 * alpha)/1792 +
   465/10976) + 2 * f * h * ((-(225 * alpha^4)/3584) + (225 *
   alpha^3)/12544 - (633 * alpha^2)/25088 + (15 * alpha)/256 +
   9/784) + 0 + g^2 * ((-(81 * alpha^4)/686) + (135 * alpha^3)/1372 -
    (27 * alpha^2)/392 + (405 * alpha)/5488 + 81/5488) + 2 *
   g * h * (15/6272 - 9/224 * alpha^4 + 51/6272 * alpha^3 -
   13/12544 * alpha^2 + 55/1792 * alpha) + 0 + h^2 * (-7/512 *
   alpha^4 - 3/512 * alpha^3 + 3/256 * alpha^2 + 1/128 * alpha) +
   0 + i^2 * 0
9/196 * alpha^2 + 3/196 * alpha) + 2 * a * d * (9/784 + 225/3136 *
   alpha^2 + 45/784 * alpha) + 2 * a * e * (9/196 + 4/49 * alpha^2 +
   6/49 * alpha) + 2 * a * f * (25/196 + 225/3136 * alpha^2 +
   75/392 * alpha) + 2 * a * g * (225/784 + 9/196 * alpha^2 +
   45/196 * alpha) + 2 * a * h * (9/16 + 1/64 * alpha^2 + 3/16 *
   alpha) + 2 * a * i * 1 + b^2 * (1/256 + 35/2048 * alpha^4 +
   25/512 * alpha^3 - 27/512 * alpha^2 + 7/128 * alpha) + 2 *
   b * c * (327/12544 + 45/896 * alpha^4 + 225/3136 * alpha^3 -
   2533/25088 * alpha^2 + 1149/12544 * alpha) + 2 * b * d *
    ((1125 * alpha^4)/14336 + (2025 * alpha^3)/25088 - (2623 *
       alpha^2)/25088 + (561 * alpha)/6272 + 453/6272) + 2 *
   b * e * ((5 * alpha^4)/56 + (65 * alpha^3)/784 - (369 * alpha^2)/6272 +
    (149 * alpha)/3136 + 451/3136) + 2 * b * f * ((1125 * alpha^4)/14336 +
    (2025 * alpha^3)/25088 + (527 * alpha^2)/25088 - (45 * alpha)/3136 +
```

```
2985/12544) + 2 * b * g * ((45 * alpha^4)/896 + (225 * alpha^3)/3136 +
               (2507 * alpha^2)/25088 - (699 * alpha)/12544 + 4359/12544) +
              2 * b * h * ((35 * alpha^4)/2048 + (25 * alpha^3)/512 + (63 *
                            alpha^2)/512 - alpha/64 + 59/128) + 2 * b * i * (9/16 + 1)
              1/64 * alpha^2 + 3/16 * alpha) + c^2 * ((405 * alpha^4)/2744 -
               (513 * alpha^2)/5488 + (27 * alpha)/343 + 3429/43904) + 2 *
              c * d * ((10125 * alpha^4)/43904 - (2025 * alpha^3)/21952 -
              (2691 * alpha^2)/175616 + (675 * alpha)/87808 + 13045/87808) +
              2 * c * e * ((90 * alpha^4)/343 - (45 * alpha^3)/343 + (197 * alpha^4)/343 - (45 * alpha^4)/343 - (45 * alpha^4)/343 + (197 * alpha^4)/343 - (45 * alpha^4)/343 - (45 * alpha^4)/343 + (197 * alpha^4)/343 - (45 * alpha^4)/343 - (45 * alpha^4)/343 + (197 * alpha^4)/343 - (45 * 
                            alpha^2)/2744 - (117 * alpha)/1372 + 2481/10976) + 2 *
              c * f * ((10125 * alpha^4)/43904 - (2025 * alpha^3)/21952 +
              (22509 * alpha^2)/175616 - (13941 * alpha)/87808 + 26037/87808) +
              2 * c * g * ((405 * alpha^4)/2744 + (747 * alpha^2)/5488 -
                             (57 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * c * h * ((45 * alpha)/343 + 15077/43904) + 2 * ((45 * alpha)/343 + 15077/43904) + ((45 * alpha)/343 
              alpha^4)/896 + (225 * alpha^3)/3136 + (2507 * alpha^2)/25088 -
               9/196 * alpha^2 + 45/196 * alpha) + d^2 * ((253125 * alpha^4)/702464 -
              (50625 * alpha^3)/175616 + (24975 * alpha^2)/175616 - (675 *
              alpha)/6272 + 19575/87808) + 2 * d * e * ((1125 * alpha^4)/2744 -
               (2025 * alpha^3)/5488 + (10649 * alpha^2)/43904 - (4317 *
              alpha)/21952 + 879/3136) + 2 * d * f * ((253125 * alpha^4)/702464 -
              (50625 * alpha^3)/175616 + (40725 * alpha^2)/175616 - (345 *
              alpha)/1568 + 13529/43904) + 2 * d * g * ((10125 * alpha^4)/43904 -
              (2025 * alpha^3)/21952 + (22509 * alpha^2)/175616 - (13941 *
              alpha)/87808 + 26037/87808) + 2 * d * h * ((1125 * alpha^4)/14336 +
              (2025 * alpha^3)/25088 + (527 * alpha^2)/25088 - (45 * alpha)/3136 +
              2985/12544) + 2 * d * i * (25/196 + 225/3136 * alpha^2 +
             75/392 * alpha) + e^2 * ((160 * alpha^4)/343 - (160 * alpha^3)/343 +
              (108 * alpha^2)/343 - (82 * alpha)/343 + 821/2744) + 2 *
              e * f * ((1125 * alpha^4)/2744 - (2025 * alpha^3)/5488 +
              (10649 * alpha^2)/43904 - (4317 * alpha)/21952 + 879/3136) +
              2 * e * g * ((90 * alpha^4)/343 - (45 * alpha^3)/343 + (197 * alpha^4)/343 - (45 * alpha^4)/343 - (45 * alpha^4)/343 + (197 * alpha^4)/343 - (45 * alpha^4)/343 - (45 * alpha^4)/343 + (197 * alpha^4)/343 - (45 * alpha^4)/343 + (197 * alpha^4)/343 - (45 * alpha^4)/343 + (197 * alpha^4)/343 - (45 * alpha^4)/343 - (45 * alpha^4)/343 + (197 * alpha^4)/343 - (45 * alpha^4)/343 - (45 * alpha^4)/343 + (197 * alpha^4)/343 - (45 * alpha^4)/343 + (197 * alpha^4)/343 + (197 * alpha^4)/343 - (45 * alpha^4)/343 + (197 * alpha^4)/343 - (45 * alpha^4)/343 + (197 * alpha^4)/343 + (197 * alpha^4)/343 - (45 * alpha^4)/343 + (197 * alpha^4)/343 + (
                            alpha^2)/2744 - (117 * alpha)/1372 + 2481/10976) + 2 *
              e * h * ((5 * alpha^4)/56 + (65 * alpha^3)/784 - (369 * alpha^2)/6272 +
              (149 * alpha)/3136 + 451/3136) + 2 * e * i * (9/196 + 4/49 *
              alpha^2 + 6/49 * alpha) + f^2 * ((253125 * alpha^4)/702464 -
              (50625 * alpha^3)/175616 + (24975 * alpha^2)/175616 - (675 *
              alpha)/6272 + 19575/87808) + 2 * f * g * ((10125 * alpha^4)/43904 -
              (2025 * alpha^3)/21952 - (2691 * alpha^2)/175616 + (675 *
              alpha)/87808 + 13045/87808) + 2 * f * h * ((1125 * alpha^4)/14336 +
              (2025 * alpha^3)/25088 - (2623 * alpha^2)/25088 + (561 *
              alpha)/6272 + 453/6272) + 2 * f * i * (9/784 + 225/3136 *
             alpha^2 + 45/784 * alpha) + g^2 * ((405 * alpha^4)/2744 -
              (513 * alpha^2)/5488 + (27 * alpha)/343 + 3429/43904) + 2 *
              g * h * (327/12544 + 45/896 * alpha^4 + 225/3136 * alpha^3 -
              2533/25088 * alpha^2 + 1149/12544 * alpha) + 2 * g * i *
              (1/784 + 9/196 * alpha^2 + 3/196 * alpha) + h^2 * (1/256 + 9/196 * alpha) + h^2 * (1/256 + 9
             35/2048 * alpha^4 + 25/512 * alpha^3 - 27/512 * alpha^2 +
             7/128 * alpha) + 2 * h * i * (1/64 * alpha^2) + i^2 * 0)
Q4 \leftarrow (a^2 * 0 + 2 * a * b * 0 + 2 * a * c * 0 + 2 * a * d *
             0 + 2 * a * e * 0 + 2 * a * f * 0 + 2 * a * g * 0 + 2 * a *
```

```
h * 0 + 2 * a * i * 0 + b^2 * (-7/512 * alpha^4 - 3/512 *
alpha^3 + 3/256 * alpha^2 + 1/128 * alpha) + 2 * b * c *
(15/6272 - 9/224 * alpha^4 + 51/6272 * alpha^3 - 13/12544 *
      alpha^2 + 55/1792 * alpha) + 2 * b * d * ((-(225 * alpha^4)/3584) +
(225 * alpha^3)/12544 - (633 * alpha^2)/25088 + (15 * alpha)/256 +
9/784) + 2 * b * e * ((-alpha^4/14) + (9 * alpha^3)/784 -
(159 * alpha^2)/3136 + (5 * alpha)/64 + 51/1568) + 2 * b *
f * ((-(225 * alpha^4)/3584) - (285 * alpha^3)/25088 - (55 *
alpha^2)/784 + (65 * alpha)/896 + 225/3136) + 2 * b * g *
((-(9 * alpha^4)/224) - (243 * alpha^3)/6272 - (993 * alpha^2)/12544 +
      (39 * alpha)/1792 + 855/6272) + 2 * b * h * ((-(7 * alpha^4)/512) -
(3 * alpha^3)/64 - (39 * alpha^2)/512 - (25 * alpha)/256 +
15/64) + 2 * b * i * (3/8 - 1/16 * alpha^2 - 5/16 * alpha) +
c^2 * ((-(81 * alpha^4)/686) + (135 * alpha^3)/1372 - (27 *
      alpha^2)/392 + (405 * alpha)/5488 + 81/5488) + 2 * c *
d * ((-(2025 * alpha^4)/10976) + (7425 * alpha^3)/43904 -
(11043 * alpha^2)/87808 + (177 * alpha)/1792 + 465/10976) +
2 * c * e * ((-(72 * alpha^4)/343) + (57 * alpha^3)/343 -
      (181 * alpha^2)/1372 + (239 * alpha)/2744 + 243/2744) +
2 * c * f * ((-(2025 * alpha^4)/10976) + (3645 * alpha^3)/43904 -
      (7515 * alpha^2)/87808 + (405 * alpha)/12544 + 6795/43904) +
2 * c * g * ((-(81 * alpha^4)/686) - (27 * alpha^3)/686 -
      (9 * alpha^2)/392 - (165 * alpha)/2744 + 165/686) + 2 *
c * h * ((-(9 * alpha^4)/224) - (705 * alpha^3)/6272 - (229 * alph
alpha^2)/12544 - (2165 * alpha)/12544 + 1077/3136) + 2 *
c * i * (45/98 - 9/49 * alpha^2 - 27/98 * alpha) + d^2 *
((-(50625 * alpha^4)/175616) + (50625 * alpha^3)/175616 -
      (2025 * alpha^2)/10976 + (2025 * alpha)/21952 + 2025/21952) +
2 * d * e * ((-(225 * alpha^4)/686) + (225 * alpha^3)/784 -
      (3273 * alpha^2)/21952 + (717 * alpha)/21952 + 54/343) +
2 * d * f * ((-(50625 * alpha^4)/175616) + (3375 * alpha^3)/21952 -
      (5625 * alpha^2)/175616 - (5655 * alpha)/87808 + 2535/10976) +
2 * d * g * ((-(2025 * alpha^4)/10976) - (2025 * alpha^3)/43904 +
      (7857 * alpha^2)/87808 - (2025 * alpha)/12544 + 3321/10976) +
2 * d * h * ((-(225 * alpha^4)/3584) - (4275 * alpha^3)/25088 +
      (921 * alpha^2)/12544 - (39 * alpha)/196 + 1125/3136) +
2 * d * i * (75/196 - 225/784 * alpha^2 - 75/784 * alpha) +
e^2 * ((-(128 * alpha^4)/343) + (96 * alpha^3)/343 - (24 *
      alpha^2)/343 - (22 * alpha)/343 + 78/343) + 2 * e * f *
((-(225 * alpha^4)/686) + (15 * alpha^3)/112 + (1655 * alpha^2)/21952 -
      alpha^4/343) - (27 * alpha^3)/343 + (267 * alpha^2)/1372 -
(615 * alpha)/2744 + 873/2744) + 2 * e * h * ((-alpha^4/14) -
(159 * alpha^3)/784 + (417 * alpha^2)/3136 - (529 * alpha)/3136 +
243/784) + 2 * e * i * (12/49 - 16/49 * alpha^2 + 4/49 *
alpha) + f^2 * ((-(50625 * alpha^4)/175616) + (3375 * alpha^3)/175616 +
(16875 * alpha^2)/87808 - (10125 * alpha)/43904 + 3375/10976) +
2 * f * g * ((-(2025 * alpha^4)/10976) - (5805 * alpha^3)/43904 +
      (21465 * alpha^2)/87808 - (2715 * alpha)/12544 + 12675/43904) +
2 * f * h * ((-(225 * alpha^4)/3584) - (2505 * alpha^3)/12544 +
      (3235 * alpha^2)/25088 - (1145 * alpha)/12544 + 705/3136) +
2 * f * i * (45/392 - 225/784 * alpha^2 + 135/784 * alpha) +
g^2 * ((-(81 * alpha^4)/686) - (243 * alpha^3)/1372 + (81 *
```

```
alpha^2)/392 - (729 * alpha)/5488 + 1215/5488) + 2 *
    g * h * (405/3136 - 9/224 * alpha^4 - 999/6272 * alpha^3 +
   807/12544 * alpha^2 + 75/12544 * alpha) + 2 * g * i * (3/98 - 1)
   9/49 * alpha^2 + 15/98 * alpha) + h^2 * (3/64 - 7/512 * alpha^4 -
   45/512 * alpha^3 - 3/128 * alpha^2 + 5/64 * alpha) + 2 *
   h * i * (1/16 * alpha - 1/16 * alpha^2) + i^2 * 0)
Q3 \leftarrow (a^2 * 0 + 2 * a * b * 0 + 2 * a * c * 0 + 2 * a * d *
   0 + 2 * a * e * 0 + 2 * a * f * 0 + 2 * a * g * 0 + 2 * a *
   h * 0 + 2 * a * i * 0 + b^2 * (7/1024 * alpha^4 - 3/512 *
    alpha^3 + 3/512 * alpha^2) + 2 * b * c * (1/12544 + 9/448 *
    alpha^4 - 117/6272 * alpha^3 + 27/1792 * alpha^2 + 37/12544 *
   alpha) + 2 * b * d * ((225 * alpha^4)/7168 - (75 * alpha^3)/3136 +
    (33 * alpha^2)/1792 + (9 * alpha)/784 + 9/12544) + 2 * b *
    e * (alpha^4/28 - (3 * alpha^3)/196 + (3 * alpha^2)/224 +
    (81 * alpha)/3136 + 9/3136) + 2 * b * f * ((225 * alpha^4)/7168 +
    (135 * alpha^3)/25088 + (15 * alpha^2)/3584 + (275 * alpha)/6272 +
   25/3136) + 2 * b * g * ((9 * alpha^4)/448 + (177 * alpha^3)/6272 +
    (3 * alpha^2)/1792 + (765 * alpha)/12544 + 225/12544) + 2 *
   b * h * ((7 * alpha^4)/1024 + (9 * alpha^3)/256 + (3 * alpha^2)/128 +
    (9 * alpha)/128 + 9/256) + 2 * b * i * (1/16 + 3/32 * alpha^2 +
    1/16 * alpha) + c^2 * ((81 * alpha^4)/1372 - (81 * alpha^3)/1372 +
    (81 * alpha^2)/2744 + (87 * alpha)/5488 + 33/21952) + 2 *
    c * d * ((2025 * alpha^4)/21952 - (3375 * alpha^3)/43904 +
    (261 * alpha^2)/12544 + (3453 * alpha)/87808 + 573/87808) +
    2 * c * e * ((36 * alpha^4)/343 - (18 * alpha^3)/343 - (9 *
        alpha^2)/686 + (185 * alpha)/2744 + 25/1372) + 2 * c *
   f * ((2025 * alpha^4)/21952 + (405 * alpha^3)/43904 - (675 *
    alpha^2)/12544 + (7695 * alpha)/87808 + 3555/87808) + 2 *
    c * g * ((81 * alpha^4)/1372 + (27 * alpha^3)/343 - (171 *
    alpha^2)/2744 + (111 * alpha)/1372 + 1713/21952) + 2 * c *
   h * ((9 * alpha^4)/448 + (639 * alpha^3)/6272 + (261 * alpha^2)/12544 +
    (271 * alpha)/12544 + 1711/12544) + 2 * c * i * (87/392 + 1711/12544)
   27/98 * alpha^2 - 6/49 * alpha) + d^2 * ((50625 * alpha^4)/351232 -
    (16875 * alpha^3)/175616 - (2025 * alpha^2)/175616 + (405 *
    alpha)/5488 + 135/6272) + 2 * d * e * ((225 * alpha^4)/1372 -
    (75 * alpha^3)/1372 - (789 * alpha^2)/10976 + (45 * alpha)/448 +
    1089/21952) + 2 * d * f * ((50625 * alpha^4)/351232 + (3375 *
    alpha^3)/87808 - (5625 * alpha^2)/43904 + (4395 * alpha)/43904 +
    1185/12544) + 2 * d * g * ((2025 * alpha^4)/21952 + (6075 *
    alpha^3)/43904 - (1539 * alpha^2)/12544 + (4293 * alpha)/87808 +
    14013/87808) + 2 * d * h * ((225 * alpha^4)/7168 + (4125 *
    alpha^3)/25088 + (687 * alpha^2)/25088 - (513 * alpha)/6272 +
    1557/6272) + 2 * d * i * (285/784 + 675/1568 * alpha^2 -
    255/784 * alpha) + e^2 * ((64 * alpha^4)/343 - (48 * alpha^2)/343 +
    (36 * alpha)/343 + 135/1372) + 2 * e * f * ((225 * alpha^4)/1372 +
    (135 * alpha^3)/1372 - (1965 * alpha^2)/10976 + (205 * alpha)/3136 +
   3595/21952) + 2 * e * g * ((36 * alpha^4)/343 + (66 * alpha^3)/343 -
    (93 * alpha^2)/686 - (81 * alpha)/2744 + 333/1372) + 2 *
    e * h * (alpha^4/28 + (39 * alpha^3)/196 + (93 * alpha^2)/1568 -
    (585 * alpha)/3136 + 1035/3136) + 2 * e * i * (41/98 + 24/49 *
    alpha^2 - 20/49 * alpha) + f^2 * ((50625 * alpha^4)/351232 +
```

```
(30375 * alpha^3)/175616 - (30375 * alpha^2)/175616 - (375 *
           alpha)/21952 + 375/1568) + 2 * f * g * ((2025 * alpha^4)/21952 +
            (9855 * alpha^3)/43904 - (1035 * alpha^2)/12544 - (11625 *
           alpha)/87808 + 27075/87808) + 2 * f * h * ((225 * alpha^4)/7168 +
            (1215 * alpha^3)/6272 + (1425 * alpha^2)/12544 - (785 * alpha)/3136 +
           4465/12544) + 2 * f * i * (285/784 + 675/1568 * alpha^2 -
           255/784 * alpha) + g^2 * ((81 * alpha^4)/1372 + (297 * alpha^3)/1372 +
            (81 * alpha^2)/2744 - (1215 * alpha)/5488 + 7425/21952) +
           2 * g * h * (3951/12544 + 9/448 * alpha^4 + 933/6272 * alpha^3 +
                       2109/12544 * alpha^2 - 3033/12544 * alpha) + 2 * g *
           i * (87/392 + 27/98 * alpha^2 - 6/49 * alpha) + h^2 * (27/128 + 27/98 * alpha) + h^2 * (27/128 + 
           7/1024 * alpha^4 + 39/512 * alpha^3 + 93/512 * alpha^2 -
           9/64 * alpha) + 2 * h * i * (1/16 + 3/32 * alpha^2 + 1/16 *
           alpha) + i^2 * 0
Q2 \leftarrow (a^2 * 0 + 2 * a * b * 0 + 2 * a * c * 0 + 2 * a * d *
           0 + 2 * a * e * 0 + 2 * a * f * 0 + 2 * a * g * 0 + 2 * a *
           h * 0 + 2 * a * i * 0 + b^2 * (-1/512 * alpha^4 + 1/512 *
           alpha^3) + 2 * b * c * (-9/1568 * alpha^4 + 27/6272 * alpha^3 +
           17/12544 * alpha^2 + 1/12544 * alpha) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * ((-(225 * 25)) + 2 * b * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d * ((-(225 * 25)) + 2 * b * d *
           alpha^4)/25088) + (45 * alpha^3)/12544 + (117 * alpha^2)/25088 +
            (9 * alpha)/12544) + 2 * b * e * ((-alpha^4/98) - alpha^3/784 +
            (27 * alpha^2)/3136 + (9 * alpha)/3136) + 2 * b * f * ((-(225 * alpha^2)/3136)) + 2 * b * f * ((-(225 * alpha^2)/3136)) + (27 * alpha^2)/3136) + (27 * alpha^2)/316) + (2
           alpha^4)/25088) - (225 * alpha^3)/25088 + (125 * alpha^2)/12544 +
            (25 * alpha)/3136) + 2 * b * g * ((-(9 * alpha^4)/1568) -
            (99 * alpha^3)/6272 + (45 * alpha^2)/12544 + (225 * alpha)/12544) +
           2 * b * h * ((-alpha^4/512) - alpha^3/64 - (9 * alpha^2)/512 +
                       (9 * alpha)/256) + 2 * b * i * (1/16 * alpha - 1/16 *
           alpha^2) + c^2 * ((-(81 * alpha^4)/4802) + (81 * alpha^3)/9604 +
            (135 * alpha^2)/19208 + (51 * alpha)/38416 + 3/38416) + 2 *
           c * d * ((-(2025 * alpha^4)/76832) + (1215 * alpha^3)/307328 +
            (10089 * alpha^2)/614656 + (3375 * alpha)/614656 + 153/307328) +
           2 * c * e * ((-(72 * alpha^4)/2401) - (27 * alpha^3)/2401 +
                       (239 * alpha^2)/9604 + (281 * alpha)/19208 + 33/19208) +
           2 * c * f * ((-(2025 * alpha^4)/76832) - (10125 * alpha^3)/307328 +
                       (14625 * alpha^2)/614656 + (19125 * alpha)/614656 + 675/153664) +
           2 * c * g * ((-(81 * alpha^4)/4802) - (243 * alpha^3)/4802 +
                       (9 * alpha^2)/19208 + (1107 * alpha)/19208 + 45/4802) +
           2 * c * h * ((-(9 * alpha^4)/1568) - (297 * alpha^3)/6272 -
                       (775 * alpha^2)/12544 + (1219 * alpha)/12544 + 111/6272) +
           2 * c * i * (3/98 - 9/49 * alpha^2 + 15/98 * alpha) + d^2 *
            ((-(50625 * alpha^4)/1229312) - (10125 * alpha^3)/1229312 +
                       (18225 * alpha^2)/614656 + (5265 * alpha)/307328 + 405/153664) +
           2 * d * e * ((-(225 * alpha^4)/4802) - (1305 * alpha^3)/38416 +
                       (5499 * alpha^2)/153664 + (5679 * alpha)/153664 + 621/76832) +
           2 * d * f * ((-(50625 * alpha^4)/1229312) - (10125 * alpha^3)/153664 +
                       (28575 * alpha^2)/1229312 + (39825 * alpha)/614656 +
                       2925/153664) + 2 * d * g * ((-(2025 * alpha^4)/76832) -
            (27135 * alpha^3)/307328 - (13851 * alpha^2)/614656 + (60831 *
           alpha)/614656 + 11745/307328) + 2 * d * h * ((-(225 * alpha^4)/25088) -
            (1935 * alpha^3)/25088 - (747 * alpha^2)/6272 + (855 * alpha)/6272 +
           27/392) + 2 * d * i * (45/392 - 225/784 * alpha^2 + 135/784 *
```

```
alpha) + e^2 * ((-(128 * alpha^4)/2401) - (160 * alpha^3)/2401 +
               (72 * alpha^2)/2401 + (162 * alpha)/2401 + 54/2401) + 2 *
              e * f * ((-(225 * alpha^4)/4802) - (3825 * alpha^3)/38416 -
               (325 * alpha^2)/153664 + (15325 * alpha)/153664 + 1875/38416) +
              2 * e * g * ((-(72 * alpha^4)/2401) - (279 * alpha^3)/2401 -
                             (657 * alpha^2)/9604 + (2367 * alpha)/19208 + 1755/19208) +
              2 * e * h * ((-alpha^4/98) - (73 * alpha^3)/784 - (549 *
                             alpha^2)/3136 + (387 * alpha)/3136 + 243/1568) + 2 *
              e * i * (12/49 - 16/49 * alpha^2 + 4/49 * alpha) + f^2 *
               ((-(50625 * alpha^4)/1229312) - (151875 * alpha^3)/1229312 -
                             (16875 * alpha^2)/307328 + (9375 * alpha)/76832 + 1875/19208) +
              2 * f * g * ((-(2025 * alpha^4)/76832) - (38475 * alpha^3)/307328 -
                             (79875 * alpha^2)/614656 + (69525 * alpha)/614656 + 25875/153664) +
              2 * f * h * ((-(225 * alpha^4)/25088) - (1125 * alpha^3)/12544 -
                             (5375 * alpha^2)/25088 + (625 * alpha)/12544 + 825/3136) +
              2 * f * i * (75/196 - 225/784 * alpha^2 - 75/784 * alpha) +
              g^2 * ((-(81 * alpha^4)/4802) - (1053 * alpha^3)/9604 - (3645 * alpha^4)/4802) - (1053 * alpha^4)/4804 - (3645 * alpha^4)/4804 - (365 * alpha^4)/4804
                            alpha^2)/19208 + (2025 * alpha)/38416 + 10125/38416) +
              2 * g * h * (2295/6272 - 9/1568 * alpha^4 - 423/6272 * alpha^3 -
                            2763/12544 * alpha^2 - 909/12544 * alpha) + 2 * g * i *
               (45/98 - 9/49 * alpha^2 - 27/98 * alpha) + h^2 * (27/64 - 9/49 * alpha) + h^2 * (27/64 - 9/
              1/512 * alpha^4 - 17/512 * alpha^3 - 45/256 * alpha^2 - 27/128 *
              alpha) + 2 * h * i * (3/8 - 1/16 * alpha^2 - 5/16 * alpha) +
              i^2 * 0)
Q1 \leftarrow (a^2 * 0 + 2 * a * b * 0 + 2 * a * c * 0 + 2 * a * d *
              0 + 2 * a * e * 0 + 2 * a * f * 0 + 2 * a * g * 0 + 2 * a *
              h * 0 + 2 * a * i * 0 + b^2 * (1/4096 * alpha^4) + 2 * b *
              c * (9/12544 * alpha^4 + 3/12544 * alpha^3 + 1/50176 * alpha^2) +
              2 * b * d * ((225 * alpha^4)/200704 + (45 * alpha^3)/50176 +
                             (9 * alpha^2)/50176) + 2 * b * e * (alpha^4/784 + (3 * alpha^4/784))
              alpha^3)/1568 + (9 * alpha^2)/12544) + 2 * b * f * ((225 * alpha^3)/1568) + (10 * alpha^3)/1568 + (10 * alph
              alpha^4)/200704 + (75 * alpha^3)/25088 + (25 * alpha^2)/12544) +
              2 * b * g * ((9 * alpha^4)/12544 + (45 * alpha^3)/12544 +
                             (225 * alpha^2)/50176) + 2 * b * h * (alpha^4/4096 +
               (3 * alpha^3)/1024 + (9 * alpha^2)/1024) + 2 * b * i * (1/64 *
              alpha^2) + c^2 * ((81 * alpha^4)/38416 + (27 * alpha^3)/19208 +
               (27 * alpha^2)/76832 + (3 * alpha)/76832 + 1/614656) + 2 *
              c * d * ((2025 * alpha^4)/614656 + (2295 * alpha^3)/614656 +
               (3681 * alpha^2)/2458624 + (153 * alpha)/614656 + 9/614656) +
              2 * c * e * ((9 * alpha^4)/2401 + (33 * alpha^3)/4802 + (157 * alpha^4)/4802 + (157 * alp
                             alpha^2)/38416 + (33 * alpha)/38416 + 9/153664) + 2 *
              c * f * ((2025 * alpha^4)/614656 + (6075 * alpha^3)/614656 +
               (21825 * alpha^2)/2458624 + (675 * alpha)/307328 + 25/153664) +
              2 * c * g * ((81 * alpha^4)/38416 + (27 * alpha^3)/2401 +
                             (1287 * alpha^2)/76832 + (45 * alpha)/9604 + 225/614656) +
              2 * c * h * ((9 * alpha^4)/12544 + (111 * alpha^3)/12544 +
                             (1441 * alpha^2)/50176 + (111 * alpha)/12544 + 9/12544) +
              2 * c * i * (1/784 + 9/196 * alpha^2 + 3/196 * alpha) + d^2 *
               ((50625 * alpha^4)/9834496 + (10125 * alpha^3)/1229312 +
                             (6075 * alpha^2)/1229312 + (405 * alpha)/307328 + 81/614656) +
              2 * d * e * ((225 * alpha^4)/38416 + (1035 * alpha^3)/76832 +
```

```
(6921 * alpha^2)/614656 + (621 * alpha)/153664 + 81/153664) +
    2 * d * f * ((50625 * alpha^4)/9834496 + (43875 * alpha^3)/2458624 +
        (51525 * alpha^2)/2458624 + (2925 * alpha)/307328 + 225/153664) +
    2 * d * g * ((2025 * alpha^4)/614656 + (11745 * alpha^3)/614656 +
        (84321 * alpha^2)/2458624 + (11745 * alpha)/614656 +
        2025/614656) + 2 * d * h * ((225 * alpha^4)/200704 +
    (45 * alpha^3)/3136 + (1287 * alpha^2)/25088 + (27 * alpha)/784 +
    81/12544) + 2 * d * i * (9/784 + 225/3136 * alpha^2 + 45/784 *
    alpha) + e^2 * ((16 * alpha^4)/2401 + (48 * alpha^3)/2401 +
    (54 * alpha^2)/2401 + (27 * alpha)/2401 + 81/38416) + 2 *
    e * f * ((225 * alpha^4)/38416 + (1875 * alpha^3)/76832 +
    (22825 * alpha^2)/614656 + (1875 * alpha)/76832 + 225/38416) +
    2 * e * g * ((9 * alpha^4)/2401 + (117 * alpha^3)/4802 +
        (2061 * alpha^2)/38416 + (1755 * alpha)/38416 + 2025/153664) +
    2 * e * h * (alpha^4/784 + (27 * alpha^3)/1568 + (873 * alpha^2)/12544 +
        (243 * alpha)/3136 + 81/3136) + 2 * e * i * (9/196 + 1)
    4/49 * alpha^2 + 6/49 * alpha) + f^2 * ((50625 * alpha^4)/9834496 +
    (16875 * alpha^3)/614656 + (16875 * alpha^2)/307328 + (1875 *
    alpha)/38416 + 625/38416) + 2 * f * g * ((2025 * alpha^4)/614656 +
    (15525 * alpha^3)/614656 + (173025 * alpha^2)/2458624 + (25875 *
    alpha)/307328 + 5625/153664) + 2 * f * h * ((225 * alpha^4)/200704 +
    (825 * alpha^3)/50176 + (3925 * alpha^2)/50176 + (825 * alpha)/6272 +
    225/3136) + 2 * f * i * (25/196 + 225/3136 * alpha^2 + 75/392 *
    alpha) + g^2 * ((81 * alpha^4)/38416 + (405 * alpha^3)/19208 +
    (6075 * alpha^2)/76832 + (10125 * alpha)/76832 + 50625/614656) +
    2 * g * h * (2025/12544 + 9/12544 * alpha^4 + 153/12544 *
        alpha^3 + 3681/50176 * alpha^2 + 2295/12544 * alpha) +
    2 * g * i * (225/784 + 9/196 * alpha^2 + 45/196 * alpha) +
    h^2 * (81/256 + 1/4096 * alpha^4 + 3/512 * alpha^3 + 27/512 *
        alpha^2 + 27/128 * alpha) + 2 * h * i * (9/16 + 1/64 *
    alpha^2 + 3/16 * alpha) + i^2 * 1)
prob <- c(Q9, Q8, Q7, Q6, Q5, Q4, Q3, Q2, Q1)
prob and prob1 are equivalent
prob
## [1] 0.04948 0.09193 0.13758 0.16100 0.19942 0.14998 0.10952 0.06350 0.03759
prob1
## [1] 0.04948 0.09193 0.13758 0.16100 0.19942 0.14998 0.10952 0.06350 0.03759
This perturbs prob (a function of Q1,...,Q9) to get prob_new
d1 = (Q9 + Q1) * 0.05
d2 = (Q8 + Q2) * 0.05
d3 = (Q7 + Q3) * 0.05
d4 = (Q6 + Q4) * 0.05
P Q9 = Q9 + d1
P_Q1 = Q1 - d1
P_Q8 = Q8 + d2
P_Q2 = Q2 - d2
P_Q7 = Q7 + d3
```

```
P_Q3 = Q3 - d3

P_Q6 = Q6 + d4

P_Q4 = Q4 - d4

P_Q5 = Q5

prob_new <- c(P_Q9, P_Q8, P_Q7, P_Q6, P_Q5, P_Q4, P_Q3, P_Q2, P_Q1)
```

Minor perturbations:

prob_new

```
## [1] 0.05384 0.09970 0.14993 0.17655 0.19942 0.13443 0.09716 0.05573 0.03323 prob
```

[1] 0.04948 0.09193 0.13758 0.16100 0.19942 0.14998 0.10952 0.06350 0.03759

This simulates data from prob_new

```
index \leftarrow sample(c(1, 2, 3, 4, 5, 6, 7, 8, 9), 50, replace = T,
     prob = prob_new)
NN \leftarrow rep(0, 9)
st <- table(index)</pre>
NNn <- as.numeric(names(st))</pre>
NN[NNn] <- as.numeric(st)</pre>
n9 <- NN[1]
n8 <- NN[2]
n7 \leftarrow NN[3]
n6 <- NN[4]
n5 \leftarrow NN[5]
n4 \leftarrow NN[6]
n3 <- NN[7]
n2 \leftarrow NN[8]
n1 \leftarrow NN[9]
N = n9 + n8 + n7 + n6 + n5 + n4 + n3 + n2 + n1
```

This runs some iterative algorithm to estimate the genotype frequencies

```
geno.p \leftarrow c()
for (j in 1:500) {
                      R9 \leftarrow (a^2 * 1 + 2 * a * b * (9/16 + 1/64 * 0^2 + 3/16 *
                                              0) + 2 * a * c * (225/784 + 9/196 * 0^2 + 45/196 * 0) +
                                               2 * a * d * (25/196 + 225/3136 * 0^2 + 75/392 * 0) +
                                               2 * a * e * (9/196 + 4/49 * 0^2 + 6/49 * 0) + 2 * a *
                                               f * (9/784 + 225/3136 * 0^2 + 45/784 * 0) + 2 * a * g *
                                                (1/784 + 9/196 * 0^2 + 3/196 * 0) + 2 * a * h * (1/64 * 0)
                                              0^2) + 0 + b^2 * (81/256 + 1/4096 * 0^4 + 3/512 * 0^3 +
                                              27/512 * 0^2 + 27/128 * 0) + 2 * b * c * (2025/12544 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 27/128 + 
                                             9/12544 * 0^4 + 153/12544 * 0^3 + 3681/50176 * 0^2 +
                                              2295/12544 * 0) + 2 * b * d * ((225 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704 + (825 * 0^4)/200704
                                              0^3)/50176 + (3925 * 0^2)/50176 + (825 * 0)/6272 + 225/3136) +
                                              2 * b * e * (0^4/784 + (27 * 0^3)/1568 + (873 * 0^2)/12544 +
                                                                       (243 * 0)/3136 + 81/3136) + 2 * b * f * ((225 * 0^4)/200704 + 1)
                                                (45 * 0^3)/3136 + (1287 * 0^2)/25088 + (27 * 0)/784 +
```

```
81/12544) + 2 * b * g * ((9 * 0^4)/12544 + (111 * 0^3)/12544 +
                (1441 * 0^2)/50176 + (111 * 0)/12544 + 9/12544) + 2 *
               b * h * (0^4/4096 + (3 * 0^3)/1024 + (9 * 0^2)/1024) +
               0 + c^2 * ((81 * 0^4)/38416 + (405 * 0^3)/19208 + (6075 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/38416 + (405 * 0^4)/3
               0^2)/76832 + (10125 * 0)/76832 + 50625/614656) + 2 *
               c * d * ((2025 * 0^4)/614656 + (15525 * 0^3)/614656 +
               (173025 * 0^2)/2458624 + (25875 * 0)/307328 + 5625/153664) +
               2 * c * e * ((9 * 0^4)/2401 + (117 * 0^3)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/4802 + (2061 * 0^4)/48
                               0^2)/38416 + (1755 * 0)/38416 + 2025/153664) + 2 *
               c * f * ((2025 * 0^4)/614656 + (11745 * 0^3)/614656 +
                (84321 * 0^2)/2458624 + (11745 * 0)/614656 + 2025/614656) +
               2 * c * g * ((81 * 0^4)/38416 + (27 * 0^3)/2401 + (1287 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416
                               0^2)/76832 + (45 * 0)/9604 + 225/614656) + 2 * c *
               h * ((9 * 0^4)/12544 + (45 * 0^3)/12544 + (225 * 0^2)/50176) +
               0 + d^2 * ((50625 * 0^4)/9834496 + (16875 * 0^3)/614656 +
                (16875 * 0^2)/307328 + (1875 * 0)/38416 + 625/38416) +
               2 * d * e * ((225 * 0^4)/38416 + (1875 * 0^3)/76832 +
                               (22825 * 0^2)/614656 + (1875 * 0)/76832 + 225/38416) +
               2 * d * f * ((50625 * 0^4)/9834496 + (43875 * 0^3)/2458624 +
                               (51525 * 0^2)/2458624 + (2925 * 0)/307328 + 225/153664) +
               2 * d * g * ((2025 * 0^4)/614656 + (6075 * 0^3)/614656 +
                               (21825 * 0^2)/2458624 + (675 * 0)/307328 + 25/153664) +
               2 * d * h * ((225 * 0^4)/200704 + (75 * 0^3)/25088 +
                               (25 * 0^2)/12544) + 0 + e^2 * ((16 * 0^4)/2401 +
                (48 * 0^3)/2401 + (54 * 0^2)/2401 + (27 * 0)/2401 + 81/38416) +
               2 * e * f * ((225 * 0^4)/38416 + (1035 * 0^3)/76832 +
                               (6921 * 0^2)/614656 + (621 * 0)/153664 + 81/153664) +
               2 * e * g * ((9 * 0^4)/2401 + (33 * 0^3)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (157 * 0^4)/4802 + (
                               0^2)/38416 + (33 * 0)/38416 + 9/153664) + 2 * e *
               h * (0^4/784 + (3 * 0^3)/1568 + (9 * 0^2)/12544) + 0 +
               f^2 * ((50625 * 0^4)/9834496 + (10125 * 0^3)/1229312 +
                               (6075 * 0^2)/1229312 + (405 * 0)/307328 + 81/614656) +
               2 * f * g * ((2025 * 0^4)/614656 + (2295 * 0^3)/614656 +
                               (3681 * 0^2)/2458624 + (153 * 0)/614656 + 9/614656) +
               2 * f * h * ((225 * 0^4)/200704 + (45 * 0^3)/50176 +
                               (9 * 0^2)/50176) + 0 + g^2 * ((81 * 0^4)/38416 +
                (27 * 0^3)/19208 + (27 * 0^2)/76832 + (3 * 0)/76832 +
               1/614656) + 2 * g * h * (9/12544 * 0^4 + 3/12544 * 0^3 +
               1/50176 * 0^2 + 0 + h^2 * (1/4096 * 0^4) + 0 + i^2 *
               0)
R8 \leftarrow (a^2 * 0 + 2 * a * b * (3/8 - 1/16 * 0^2 - 5/16 * 0) +
               2 * a * c * (45/98 - 9/49 * 0^2 - 27/98 * 0) + 2 * a *
               d * (75/196 - 225/784 * 0^2 - 75/784 * 0) + 2 * a * e *
               (12/49 - 16/49 * 0^2 + 4/49 * 0) + 2 * a * f * (45/392 - 4)
               225/784 * 0^2 + 135/784 * 0) + 2 * a * g * (3/98 - 9/49 * 
               0^2 + 15/98 * 0) + 2 * a * h * (1/16 * 0 - 1/16 * 0^2) +
               0 + b^2 * (27/64 - 1/512 * 0^4 - 17/512 * 0^3 - 45/256 *
               0^2 - 27/128 * 0) + 2 * b * c * (2295/6272 - 9/1568 * 
               0^4 - 423/6272 * 0^3 - 2763/12544 * 0^2 - 909/12544 *
               0) + 2 * b * d * ((-(225 * 0^4)/25088) - (1125 * 0^3)/12544 -
               (5375 * 0^2)/25088 + (625 * 0)/12544 + 825/3136) + 2 *
               b * e * ((-0^4/98) - (73 * 0^3)/784 - (549 * 0^2)/3136 +
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(387 * 0)/3136 + 243/1568) + 2 * b * f * ((-(225 * 0^4)/25088) -
                (1935 * 0^3)/25088 - (747 * 0^2)/6272 + (855 * 0)/6272 +
               27/392) + 2 * b * g * ((-(9 * 0^4)/1568) - (297 * 0^3)/6272 -
                (775 * 0^2)/12544 + (1219 * 0)/12544 + 111/6272) + 2 *
               b * h * ((-0^4/512) - 0^3/64 - (9 * 0^2)/512 + (9 * 0)/256) +
               0 + c^2 * ((-(81 * 0^4)/4802) - (1053 * 0^3)/9604 - (3645 *
               0^2)/19208 + (2025 * 0)/38416 + 10125/38416) + 2 * c *
               d * ((-(2025 * 0^4)/76832) - (38475 * 0^3)/307328 - (79875 * 0^4)/76832)
               0^2)/614656 + (69525 * 0)/614656 + 25875/153664) + 2 *
               c * e * ((-(72 * 0^4)/2401) - (279 * 0^3)/2401 - (657 * (657 * 0^4)/2401)))
               0^2)/9604 + (2367 * 0)/19208 + 1755/19208) + 2 * c *
               f * ((-(2025 * 0^4)/76832) - (27135 * 0^3)/307328 - (13851 * 0^4)/76832)
               0^2)/614656 + (60831 * 0)/614656 + 11745/307328) + 2 *
               c * g * ((-(81 * 0^4)/4802) - (243 * 0^3)/4802 + (9 * (243 * 0^4)/4802))
               0^2/19208 + (1107 * 0)/19208 + 45/4802) + 2 * c * h *
                ((-(9 * 0^4)/1568) - (99 * 0^3)/6272 + (45 * 0^2)/12544 +
                               (225 * 0)/12544) + 0 + d^2 * ((-(50625 * 0^4)/1229312) -
                (151875 * 0^3)/1229312 - (16875 * 0^2)/307328 + (9375 *
               0)/76832 + 1875/19208) + 2 * d * e * ((-(225 * 0^4)/4802) -
                (3825 * 0^3)/38416 - (325 * 0^2)/153664 + (15325 * 0)/153664 +
               1875/38416) + 2 * d * f * ((-(50625 * 0^4)/1229312) -
                (10125 * 0^3)/153664 + (28575 * 0^2)/1229312 + (39825 * 0^3)/153664 + (28575 * 0^3)/1229312 + (39825 * 0^3)/153664 + (28575 * 0^3)/153664 + (28575 * 0^3)/153664 + (28575 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/153664 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/15366 + (39825 * 0^3)/1566 + (39825 * 0^3)/1566 + (39825 * 0^3)/1566 + (39825 * 0^3)/1566 + (39825 * 0^3)/1566 + (39825 * 0^3)/1566 + (39825 * 0^3)/1566 + (39825 * 0^3)/1566 + (39825 * 0^3)/1566 + (39825 * 0^3)/1566 + 
               0)/614656 + 2925/153664) + 2 * d * g * ((-(2025 * 0^4)/76832) -
                (10125 * 0^3)/307328 + (14625 * 0^2)/614656 + (19125 * 0^3)/307328 + (14625 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/614656 + (19125 * 0^3)/61466 + (19125 * 0^3)/61466 + (19125 * 0^3)/61466 + (19125 * 0^3)/61466 + (19125 * 0^3)/61466 + (19125 * 0^3)/61466 + (19125 * 0^3)/61466 + (19125 * 0^3)/61466 + (19125 * 0^3)/61466 + (19125 * 0^3)/61466 + (19125 * 0^3)/61466 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^3)/6146 + (19125 * 0^
               0)/614656 + 675/153664) + 2 * d * h * ((-(225 * 0^4)/25088) -
               (225 * 0^3)/25088 + (125 * 0^2)/12544 + (25 * 0)/3136) +
               0 + e^2 * ((-(128 * 0^4)/2401) - (160 * 0^3)/2401 + (72 * (160 * 0^4)/2401))
               0^2)/2401 + (162 * 0)/2401 + 54/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401) + 2 * e * f * ((-(225 * 0)/2401)) 
               0^4/4802 - (1305 * 0^3)/38416 + (5499 * 0^2)/153664 +
                (5679 * 0)/153664 + 621/76832) + 2 * e * g * ((-(72 * 
               0^4)/2401 - (27 * 0^3)/2401 + (239 * 0^2)/9604 + (281 * 0^4)/2401
               0)/19208 + 33/19208) + 2 * e * h * ((-0^4/98) - 0^3/784 +
                (27 * 0^2)/3136 + (9 * 0)/3136) + 0 + f^2 * ((-(50625 * 0))/3136) + 0 + f^2 * ((-(50625 * 0))/3136)) + 0 + f^2 * ((-(50625 * 0))/3136) + 0 + f^2 * ((-(50625 * 0))/3136)) + 0 + f^2 * ((-(50625 * 0))/3136) + 0 + f^2 * ((-(50625 * 0))/3136) + 0 + f^2 * ((-(50625 * 0))/3136)) + 0 + f^2 * ((-(50625 * 0))/3136) + 0 + f^2 * ((-(50625 * 0))/3136)) + 0 + f^2 * ((-(50625 * 0))/3136) + 0 + f^2 * ((-(50625 * 0))/3136)) + 0 + f^2 * ((-(50625 * 0))/316)) +
               0^4)/1229312) - (10125 * 0^3)/1229312 + (18225 * 0^2)/614656 +
                (5265 * 0)/307328 + 405/153664) + 2 * f * g * ((-(2025 * 0)/307328 + 405/153664)) + 2 * f * g * ((-(2025 * 0)/307328 + 405/153664)))
               0^4)/76832 + (1215 * 0^3)/307328 + (10089 * 0^2)/614656 +
                (3375 * 0)/614656 + 153/307328) + 2 * f * h * ((-(225 * 
               0^4)/25088 + (45 * 0^3)/12544 + (117 * 0^2)/25088 +
                (9 * 0)/12544) + 0 + g^2 * ((-(81 * 0^4)/4802) + (81 * 0^4)/4802)
               0^3)/9604 + (135 * 0^2)/19208 + (51 * 0)/38416 + 3/38416) +
               2 * g * h * (-9/1568 * 0^4 + 27/6272 * 0^3 + 17/12544 *
                             0^2 + 1/12544 * 0) + 0 + h^2 * (-1/512 * 0^4 + 1/512 * 0^4)
               0^3) + 0 + i^2 * 0
R7 \leftarrow (a^2 * 0 + 2 * a * b * (1/16 + 3/32 * 0^2 + 1/16 *
              0) + 2 * a * c * (87/392 + 27/98 * 0^2 - 6/49 * 0) +
               2 * a * d * (285/784 + 675/1568 * 0^2 - 255/784 * 0) +
               2 * a * e * (41/98 + 24/49 * 0^2 - 20/49 * 0) + 2 * a *
               f * (285/784 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a *
               g * (87/392 + 27/98 * 0^2 - 6/49 * 0) + 2 * a * h * (1/16 + 2)
              3/32 * 0^2 + 1/16 * 0) + 0 + b^2 * (27/128 + 7/1024 *
              0^4 + 39/512 * 0^3 + 93/512 * 0^2 - 9/64 * 0) + 2 * b *
               c * (3951/12544 + 9/448 * 0^4 + 933/6272 * 0^3 + 2109/12544 *
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0^2 - 3033/12544 * 0) + 2 * b * d * ((225 * 0^4)/7168 +
                         (1215 * 0^3)/6272 + (1425 * 0^2)/12544 - (785 * 0)/3136 +
                        4465/12544) + 2 * b * e * (0^4/28 + (39 * 0^3)/196 +
                         (93 * 0^2)/1568 - (585 * 0)/3136 + 1035/3136) + 2 * b *
                        f * ((225 * 0^4)/7168 + (4125 * 0^3)/25088 + (687 * 0^2)/25088 -
                         (513 * 0)/6272 + 1557/6272) + 2 * b * g * ((9 * 0^4)/448 +
                         (639 * 0^3)/6272 + (261 * 0^2)/12544 + (271 * 0)/12544 +
                        1711/12544) + 2 * b * h * ((7 * 0^4)/1024 + (9 * 0^3)/256 +
                         (3 * 0^2)/128 + (9 * 0)/128 + 9/256) + 0 + c^2 * ((81 * 0)/128 + 0)/128 + 0)/128 + 0/256)
                        0^4)/1372 + (297 * 0^3)/1372 + (81 * 0^2)/2744 - (1215 * 1215)
                       0)/5488 + 7425/21952) + 2 * c * d * ((2025 * 0^4)/21952 +
                         (9855 * 0^3)/43904 - (1035 * 0^2)/12544 - (11625 * 0)/87808 +
                        27075/87808) + 2 * c * e * ((36 * 0^4)/343 + (66 * 0^3)/343 -
                        (93 * 0^2)/686 - (81 * 0)/2744 + 333/1372) + 2 * c *
                        f * ((2025 * 0^4)/21952 + (6075 * 0^3)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1539 * 0^4)/43904 - (1
                        0^2)/12544 + (4293 * 0)/87808 + 14013/87808) + 2 * c *
                        g * ((81 * 0^4)/1372 + (27 * 0^3)/343 - (171 * 0^2)/2744 +
                         (111 * 0)/1372 + 1713/21952) + 2 * c * h * ((9 * 0^4)/448 +
                         (177 * 0^3)/6272 + (3 * 0^2)/1792 + (765 * 0)/12544 +
                        225/12544) + 0 + d^2 * ((50625 * 0^4)/351232 + (30375 *
                        0^3/175616 - (30375 * 0^2)/175616 - (375 * 0)/21952 +
                        375/1568) + 2 * d * e * ((225 * 0<sup>4</sup>)/1372 + (135 * 0<sup>3</sup>)/1372 -
                         (1965 * 0^2)/10976 + (205 * 0)/3136 + 3595/21952) + 2 *
                        d * f * ((50625 * 0^4)/351232 + (3375 * 0^3)/87808 -
                         (5625 * 0^2)/43904 + (4395 * 0)/43904 + 1185/12544) +
                        2 * d * g * ((2025 * 0^4)/21952 + (405 * 0^3)/43904 -
                                               (675 * 0^2)/12544 + (7695 * 0)/87808 + 3555/87808) +
                        2 * d * h * ((225 * 0^4)/7168 + (135 * 0^3)/25088 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7168 + (15 * 0^4)/7
                                               0^2)/3584 + (275 * 0)/6272 + 25/3136) + 0 + e^2 *
                         ((64 * 0^4)/343 - (48 * 0^2)/343 + (36 * 0)/343 + 135/1372) +
                        2 * e * f * ((225 * 0^4)/1372 - (75 * 0^3)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 - (789 * 0^4)/1372 -
                                               0^2)/10976 + (45 * 0)/448 + 1089/21952) + 2 * e *
                        g * ((36 * 0^4)/343 - (18 * 0^3)/343 - (9 * 0^2)/686 +
                         (185 * 0)/2744 + 25/1372) + 2 * e * h * (0^4/28 - (3 * 
                       0^3)/196 + (3 * 0^2)/224 + (81 * 0)/3136 + 9/3136) +
                        0 + f^2 * ((50625 * 0^4)/351232 - (16875 * 0^3)/175616 -
                         (2025 * 0^2)/175616 + (405 * 0)/5488 + 135/6272) + 2 *
                       f * g * ((2025 * 0^4)/21952 - (3375 * 0^3)/43904 + (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 * (261 
                       0^2)/12544 + (3453 * 0)/87808 + 573/87808) + 2 * f *
                      h * ((225 * 0^4)/7168 - (75 * 0^3)/3136 + (33 * 0^2)/1792 +
                         (9 * 0)/784 + 9/12544) + 0 + g^2 * ((81 * 0^4)/1372 -
                         (81 * 0^3)/1372 + (81 * 0^2)/2744 + (87 * 0)/5488 + 33/21952) +
                        2 * g * h * (1/12544 + 9/448 * 0^4 - 117/6272 * 0^3 +
                                               27/1792 * 0^2 + 37/12544 * 0) + 0 + h^2 * (7/1024 * 0)
                        0^4 - 3/512 * 0^3 + 3/512 * 0^2 + 0 + i^2 * 0
R6 \leftarrow (a^2 * 0 + 2 * a * b * (1/16 * 0 - 1/16 * 0^2) + 2 *
                       a * c * (3/98 - 9/49 * 0^2 + 15/98 * 0) + 2 * a * d *
                         (45/392 - 225/784 * 0^2 + 135/784 * 0) + 2 * a * e *
                         (12/49 - 16/49 * 0^2 + 4/49 * 0) + 2 * a * f * (75/196 - 12/49 + 16/49 * 0) + 2 * a * f * (75/196 - 12/49 + 16/49 * 0) + 2 * a * f * (75/196 - 12/49 + 16/49 * 0) + 2 * a * f * (75/196 - 12/49 + 16/49 * 0) + 2 * a * f * (75/196 - 12/49 + 16/49 * 0) + 2 * a * f * (75/196 - 12/49 + 16/49 * 0) + 2 * a * f * (75/196 - 12/49 + 16/49 * 0) + 2 * a * f * (75/196 - 12/49 + 16/49 * 0) + 2 * a * f * (75/196 - 12/49 + 16/49 * 0) + 2 * a * f * (75/196 - 12/49 + 16/49 * 0) + 2 * a * f * (75/196 - 12/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49 + 16/49
                       225/784 * 0^2 - 75/784 * 0) + 2 * a * g * (45/98 - 9/49 *
                       0^2 - 27/98 * 0) + 2 * a * h * (3/8 - 1/16 * 0^2 - 5/16 * 0^3 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16 * 0^4 - 1/16
                       0) + 0 + b^2 * (3/64 - 7/512 * 0^4 - 45/512 * 0^3 - 3/128 * 0^4 - 45/512 * 0^3 - 3/128 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4 - 45/512 * 0^4
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0^2 + 5/64 * 0) + 2 * b * c * (405/3136 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 9/224 * 0^4 - 
                 999/6272 * 0^3 + 807/12544 * 0^2 + 75/12544 * 0) + 2 *
                 b * d * ((-(225 * 0^4)/3584) - (2505 * 0^3)/12544 + (3235 * 0^4)/12544) + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (3235 * 0^4)/12544 + (325 * 0^4)/12544 + (325 * 0^4)/1254 + (325 * 0^4)/1254 + (325 * 0^4)/1254 + (32
                 0^2)/25088 - (1145 * 0)/12544 + 705/3136) + 2 * b * e *
                 ((-0^4/14) - (159 * 0^3)/784 + (417 * 0^2)/3136 - (529 *
                                 0)/3136 + 243/784) + 2 * b * f * ((-(225 * 0^4)/3584) -
                 (4275 * 0^3)/25088 + (921 * 0^2)/12544 - (39 * 0)/196 +
                 1125/3136) + 2 * b * g * ((-(9 * 0^4)/224) - (705 * 0^3)/6272 -
                 (229 * 0^2)/12544 - (2165 * 0)/12544 + 1077/3136) + 2 *
                 b * h * ((-(7 * 0^4)/512) - (3 * 0^3)/64 - (39 * 0^2)/512 -
                 (25 * 0)/256 + 15/64) + 0 + c^2 * ((-(81 * 0^4)/686) -
                 (243 * 0^3)/1372 + (81 * 0^2)/392 - (729 * 0)/5488 +
                 1215/5488) + 2 * c * d * ((-(2025 * 0^4)/10976) - (5805 *
                0^3)/43904 + (21465 * 0^2)/87808 - (2715 * 0)/12544 +
                 12675/43904) + 2 * c * e * ((-(72 * 0^4)/343) - (27 * (27 * 0^4)/343)) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/343) - (27 * 0^4)/34) - (27 * 0^4)/34) - (27 * 0^4)/
                0^3)/343 + (267 * 0^2)/1372 - (615 * 0)/2744 + 873/2744) +
                 2 * c * f * ((-(2025 * 0^4)/10976) - (2025 * 0^3)/43904 +
                                 (7857 * 0^2)/87808 - (2025 * 0)/12544 + 3321/10976) +
                 2 * c * g * ((-(81 * 0^4)/686) - (27 * 0^3)/686 - (9 * (27 * 0^4)/686))
                                 0^2)/392 - (165 * 0)/2744 + 165/686) + 2 * c * h *
                 ((-(9 * 0^4)/224) - (243 * 0^3)/6272 - (993 * 0^2)/12544 +
                                  (39 * 0)/1792 + 855/6272) + 0 + d^2 * ((-(50625 *
                 0^4)/175616 + (3375 * 0^3)/175616 + (16875 * 0^2)/87808 -
                 (10125 * 0)/43904 + 3375/10976) + 2 * d * e * ((-(225 * 
                 0^4)/686 + (15 * 0^3)/112 + (1655 * 0^2)/21952 - (3665 * 0^4)/686
                0)/21952 + 3135/10976) + 2 * d * f * ((-(50625 * 0^4)/175616) +
                 (3375 * 0^3)/21952 - (5625 * 0^2)/175616 - (5655 * 0)/87808 +
                 2535/10976) + 2 * d * g * ((-(2025 * 0^4)/10976) + (3645 *
                0^3/43904 - (7515 * 0^2)/87808 + (405 * 0)/12544 + 6795/43904) +
                 2 * d * h * ((-(225 * 0^4)/3584) - (285 * 0^3)/25088 -
                                  (55 * 0^2)/784 + (65 * 0)/896 + 225/3136) + 0 + e^2 *
                 ((-(128 * 0^4)/343) + (96 * 0^3)/343 - (24 * 0^2)/343 -
                                 (22 * 0)/343 + 78/343) + 2 * e * f * ((-(225 * 0^4)/686) +
                 (225 * 0^3)/784 - (3273 * 0^2)/21952 + (717 * 0)/21952 +
                 54/343) + 2 * e * g * ((-(72 * 0^4)/343) + (57 * 0^3)/343 -
                 (181 * 0^2)/1372 + (239 * 0)/2744 + 243/2744) + 2 * e *
                h * ((-0^4/14) + (9 * 0^3)/784 - (159 * 0^2)/3136 + (5 * 0^4/14) + (9 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) + (159 * 0^3/184) +
                0)/64 + 51/1568) + 0 + f^2 * ((-(50625 * 0^4)/175616) +
                 (50625 * 0^3)/175616 - (2025 * 0^2)/10976 + (2025 * 0)/21952 +
                2025/21952) + 2 * f * g * ((-(2025 * 0^4)/10976) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * (2025 * 0^4)/10976)) + (7425 * 0^4)/10976)) + (7425 * 0^4)/10976)) + (7425 * 0^4)/10976)
                0^3/43904 - (11043 * 0^2)/87808 + (177 * 0)/1792 + 465/10976) +
                2 * f * h * ((-(225 * 0^4)/3584) + (225 * 0^3)/12544 -
                                  (633 * 0^2)/25088 + (15 * 0)/256 + 9/784) + 0 + g^2 *
                 ((-(81 * 0^4)/686) + (135 * 0^3)/1372 - (27 * 0^2)/392 +
                                  (405 * 0)/5488 + 81/5488) + 2 * g * h * (15/6272 -
                9/224 * 0^4 + 51/6272 * 0^3 - 13/12544 * 0^2 + 55/1792 *
                0) + 0 + h^2 * (-7/512 * 0^4 - 3/512 * 0^3 + 3/256 *
                0^2 + 1/128 * 0) + 0 + i^2 * 0
R5 \leftarrow (a^2 * 0 + 2 * a * b * (1/64 * 0^2) + 2 * a * c * (1/784 + 1/784)
                9/196 * 0^2 + 3/196 * 0) + 2 * a * d * (9/784 + 225/3136 * 0)
                0^2 + 45/784 * 0) + 2 * a * e * (9/196 + 4/49 * 0^2 + 4/49 * 0^3)
                 6/49 * 0) + 2 * a * f * (25/196 + 225/3136 * 0^2 + 75/392 *
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0) + 2 * a * g * (225/784 + 9/196 * 0^2 + 45/196 * 0) +
2 * a * h * (9/16 + 1/64 * 0^2 + 3/16 * 0) + 2 * a *
i * 1 + b^2 * (1/256 + 35/2048 * 0^4 + 25/512 * 0^3 -
27/512 * 0^2 + 7/128 * 0 + 2 * b * c * (327/12544 + 27/12844)
45/896 * 0^4 + 225/3136 * 0^3 - 2533/25088 * 0^2 + 1149/12544 *
0) + 2 * b * d * ((1125 * 0^4)/14336 + (2025 * 0^3)/25088 -
(2623 * 0^2)/25088 + (561 * 0)/6272 + 453/6272) + 2 *
b * e * ((5 * 0^4)/56 + (65 * 0^3)/784 - (369 * 0^2)/6272 +
(149 * 0)/3136 + 451/3136) + 2 * b * f * ((1125 * 0^4)/14336 +
(2025 * 0^3)/25088 + (527 * 0^2)/25088 - (45 * 0)/3136 +
2985/12544) + 2 * b * g * ((45 * 0^4)/896 + (225 * 0^3)/3136 +
(2507 * 0^2)/25088 - (699 * 0)/12544 + 4359/12544) +
2 * b * h * ((35 * 0^4)/2048 + (25 * 0^3)/512 + (63 * 0^4)/2048 + (25 * 0^3)/212 + (63 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 + (25 * 0^4)/2048 +
         0^2)/512 - 0/64 + 59/128) + 2 * b * i * (9/16 + 1/64 * )
0^2 + 3/16 * 0) + c^2 * ((405 * 0^4)/2744 - (513 * 0^2)/5488 +
(27 * 0)/343 + 3429/43904) + 2 * c * d * ((10125 * 0^4)/43904 -
(2025 * 0^3)/21952 - (2691 * 0^2)/175616 + (675 * 0)/87808 +
13045/87808) + 2 * c * e * ((90 * 0^4)/343 - (45 * 0^3)/343 +
(197 * 0^2)/2744 - (117 * 0)/1372 + 2481/10976) + 2 *
c * f * ((10125 * 0^4)/43904 - (2025 * 0^3)/21952 + (22509 * 0^4)/43904)
0^2)/175616 - (13941 * 0)/87808 + 26037/87808) + 2 *
c * g * ((405 * 0^4)/2744 + (747 * 0^2)/5488 - (57 * 0^4)/2744 + (747 * 0^4)/2748 - (57 * 0^4)/2744 + (747 * 0^4)/2748 - (57 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2748 - (57 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 * 0^4)/2744 + (747 *
0)/343 + 15077/43904) + 2 * c * h * ((45 * 0^4)/896 +
(225 * 0^3)/3136 + (2507 * 0^2)/25088 - (699 * 0)/12544 +
4359/12544) + 2 * c * i * (225/784 + 9/196 * 0^2 + 45/196 *
0) + d^2 * ((253125 * 0^4)/702464 - (50625 * 0^3)/175616 +
(24975 * 0^2)/175616 - (675 * 0)/6272 + 19575/87808) +
2 * d * e * ((1125 * 0^4)/2744 - (2025 * 0^3)/5488 +
          (10649 * 0^2)/43904 - (4317 * 0)/21952 + 879/3136) +
2 * d * f * ((253125 * 0^4)/702464 - (50625 * 0^3)/175616 +
          (40725 * 0^2)/175616 - (345 * 0)/1568 + 13529/43904) +
2 * d * g * ((10125 * 0^4)/43904 - (2025 * 0^3)/21952 +
         (22509 * 0^2)/175616 - (13941 * 0)/87808 + 26037/87808) +
2 * d * h * ((1125 * 0^4)/14336 + (2025 * 0^3)/25088 +
         (527 * 0^2)/25088 - (45 * 0)/3136 + 2985/12544) +
2 * d * i * (25/196 + 225/3136 * 0^2 + 75/392 * 0) +
e^2 * ((160 * 0^4)/343 - (160 * 0^3)/343 + (108 * 0^2)/343 -
          (82 * 0)/343 + 821/2744) + 2 * e * f * ((1125 * 0^4)/2744 -
(2025 * 0^3)/5488 + (10649 * 0^2)/43904 - (4317 * 0)/21952 +
879/3136) + 2 * e * g * ((90 * 0^4)/343 - (45 * 0^3)/343 +
(197 * 0^2)/2744 - (117 * 0)/1372 + 2481/10976) + 2 *
e * h * ((5 * 0^4)/56 + (65 * 0^3)/784 - (369 * 0^2)/6272 +
(149 * 0)/3136 + 451/3136) + 2 * e * i * (9/196 + 4/49 * 
0^2 + 6/49 * 0) + f^2 * ((253125 * 0^4)/702464 - (50625 * 0^4)/702464) - (50625 * 0^4)/702464 - (50625 * 0^4)/702464)
0^3/175616 + (24975 * 0^2)/175616 - (675 * 0)/6272 +
19575/87808) + 2 * f * g * ((10125 * 0^4)/43904 - (2025 *
0^3)/21952 - (2691 * 0^2)/175616 + (675 * 0)/87808 +
13045/87808) + 2 * f * h * ((1125 * 0^4)/14336 + (2025 *
0^3)/25088 - (2623 * 0^2)/25088 + (561 * 0)/6272 + 453/6272) +
2 * f * i * (9/784 + 225/3136 * 0^2 + 45/784 * 0) + g^2 *
((405 * 0^4)/2744 - (513 * 0^2)/5488 + (27 * 0)/343 +
         3429/43904) + 2 * g * h * (327/12544 + 45/896 * 0^4 +
225/3136 * 0^3 - 2533/25088 * 0^2 + 1149/12544 * 0) +
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2 * g * i * (1/784 + 9/196 * 0^2 + 3/196 * 0) + h^2 *
                (1/256 + 35/2048 * 0^4 + 25/512 * 0^3 - 27/512 * 0^2 +
                              7/128 * 0) + 2 * h * i * (1/64 * 0^2) + i^2 * 0
R4 \leftarrow (a^2 * 0 + 2 * a * b * 0 + 2 * a * c * 0 + 2 * a *
               d * 0 + 2 * a * e * 0 + 2 * a * f * 0 + 2 * a * g * 0 +
               2 * a * h * 0 + 2 * a * i * 0 + b^2 * (-7/512 * 0^4 - 1)
               3/512 * 0^3 + 3/256 * 0^2 + 1/128 * 0) + 2 * b * c *
                (15/6272 - 9/224 * 0^4 + 51/6272 * 0^3 - 13/12544 * 0^2 +
                               55/1792 * 0) + 2 * b * d * ((-(225 * 0^4)/3584) +
                (225 * 0^3)/12544 - (633 * 0^2)/25088 + (15 * 0)/256 +
               9/784) + 2 * b * e * ((-0^4/14) + (9 * 0^3)/784 - (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (159 * 0^4/14) + (15
               0^4/3584 - (285 * 0^3)/25088 - (55 * 0^2)/784 + (65 * 0^4)/3584
               0)/896 + 225/3136) + 2 * b * g * ((-(9 * 0^4)/224) -
                (243 * 0^3)/6272 - (993 * 0^2)/12544 + (39 * 0)/1792 +
               855/6272) + 2 * b * h * ((-(7 * 0^4)/512) - (3 * 0^3)/64 -
                (39 * 0^2)/512 - (25 * 0)/256 + 15/64) + 2 * b * i *
                (3/8 - 1/16 * 0^2 - 5/16 * 0) + c^2 * ((-(81 * 0^4)/686) +
                (135 * 0^3)/1372 - (27 * 0^2)/392 + (405 * 0)/5488 +
               81/5488) + 2 * c * d * ((-(2025 * 0^4)/10976) + (7425 *
               0^3)/43904 - (11043 * 0^2)/87808 + (177 * 0)/1792 + 465/10976) +
               2 * c * e * ((-(72 * 0^4)/343) + (57 * 0^3)/343 - (181 * (181 * 0^4)/343))
                               0^2)/1372 + (239 * 0)/2744 + 243/2744) + 2 * c *
               f * ((-(2025 * 0^4)/10976) + (3645 * 0^3)/43904 - (7515 * (2025 * 0^4)/10976))
               0^2)/87808 + (405 * 0)/12544 + 6795/43904) + 2 * c *
               g * ((-(81 * 0^4)/686) - (27 * 0^3)/686 - (9 * 0^2)/392 -
               (165 * 0)/2744 + 165/686) + 2 * c * h * ((-(9 * 0^4)/224) -
                (705 * 0^3)/6272 - (229 * 0^2)/12544 - (2165 * 0)/12544 +
               1077/3136) + 2 * c * i * (45/98 - 9/49 * 0^2 - 27/98 *
               0) + d^2 * ((-(50625 * 0^4)/175616) + (50625 * 0^3)/175616 -
                (2025 * 0^2)/10976 + (2025 * 0)/21952 + 2025/21952) +
               2 * d * e * ((-(225 * 0^4)/686) + (225 * 0^3)/784 - (3273 * (3273 * 0^4)/686))
                               0^2)/21952 + (717 * 0)/21952 + 54/343) + 2 * d *
               f * ((-(50625 * 0^4)/175616) + (3375 * 0^3)/21952 - (5625 * 0^4)/175616) + (3375 * 0^3)/21952 - (5625 * 0^4)/175616) + (3375 * 0^3)/21952 - (5625 * 0^4)/175616) + (3375 * 0^3)/21952 - (5625 * 0^4)/175616) + (3375 * 0^3)/21952 - (5625 * 0^4)/175616) + (3375 * 0^3)/21952 - (5625 * 0^4)/175616) + (3375 * 0^3)/21952 - (5625 * 0^4)/175616) + (3375 * 0^3)/21952 - (5625 * 0^4)/175616) + (3375 * 0^3)/21952 - (5625 * 0^4)/175616) + (3375 * 0^3)/21952 - (5625 * 0^4)/175616) + (3375 * 0^3)/21952 - (5625 * 0^4)/175616) + (3375 * 0^3)/21952 - (5625 * 0^4)/175616) + (3375 * 0^3)/21952 - (5625 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/175616) + (3525 * 0^4)/17
               0^2)/175616 - (5655 * 0)/87808 + 2535/10976) + 2 * d *
               g * ((-(2025 * 0^4)/10976) - (2025 * 0^3)/43904 + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 * 0^4)/43904) + (7857 * (2025 
               0^2)/87808 - (2025 * 0)/12544 + 3321/10976) + 2 * d *
               h * ((-(225 * 0^4)/3584) - (4275 * 0^3)/25088 + (921 * 0^4)/25088)
               0^2)/12544 - (39 * 0)/196 + 1125/3136) + 2 * d * i *
                (75/196 - 225/784 * 0^2 - 75/784 * 0) + e^2 * ((-(128 * 
               0^4/343 + (96 * 0^3)/343 - (24 * 0^2)/343 - (22 * 0)/343 +
               78/343) + 2 * e * f * ((-(225 * 0^4)/686) + (15 * 0^3)/112 +
                (1655 * 0^2)/21952 - (3665 * 0)/21952 + 3135/10976) +
               2 * e * g * ((-(72 * 0^4)/343) - (27 * 0^3)/343 + (267 * (27 * 0^4)/343)) - (27 * 0^4)/343) + (267 * 0^4)/343)
                              0^2/1372 - (615 * 0)/2744 + 873/2744) + 2 * e *
               h * ((-0^4/14) - (159 * 0^3)/784 + (417 * 0^2)/3136 -
                (529 * 0)/3136 + 243/784) + 2 * e * i * (12/49 - 16/49 *
               0^2 + 4/49 * 0) + f^2 * ((-(50625 * 0^4)/175616) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 10^4) + (3375 * 1
               0^3)/175616 + (16875 * 0^2)/87808 - (10125 * 0)/43904 +
               3375/10976) + 2 * f * g * ((-(2025 * 0^4)/10976) - (5805 *
               0^3)/43904 + (21465 * 0^2)/87808 - (2715 * 0)/12544 +
               12675/43904) + 2 * f * h * ((-(225 * 0^4)/3584) - (2505 *
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0^3)/12544 + (3235 * 0^2)/25088 - (1145 * 0)/12544 +
               705/3136) + 2 * f * i * (45/392 - 225/784 * 0^2 + 135/784 * 0^3)
               0) + g^2 * ((-(81 * 0^4)/686) - (243 * 0^3)/1372 + (81 * 0^4)/686) - (243 * 0^3)/1372 + (81 * 0^4)/686) - (243 * 0^3)/1372 + (81 * 0^4)/686) - (243 * 0^3)/1372 + (81 * 0^4)/686) - (243 * 0^3)/1372 + (81 * 0^4)/686) - (243 * 0^3)/1372 + (81 * 0^4)/686) - (243 * 0^3)/1372 + (81 * 0^4)/686) - (243 * 0^3)/1372 + (81 * 0^4)/686) - (243 * 0^3)/1372 + (81 * 0^4)/686) - (243 * 0^3)/1372 + (81 * 0^4)/686) - (243 * 0^3)/1372 + (81 * 0^4)/686) - (243 * 0^3)/1372 + (81 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4)/686) - (243 * 0^4
               0^2)/392 - (729 * 0)/5488 + 1215/5488) + 2 * g * h *
                (405/3136 - 9/224 * 0^4 - 999/6272 * 0^3 + 807/12544 *
                               0^2 + 75/12544 * 0) + 2 * g * i * (3/98 - 9/49 * 1)
               0^2 + 15/98 * 0) + h^2 * (3/64 - 7/512 * 0^4 - 45/512 *
               0^3 - 3/128 * 0^2 + 5/64 * 0) + 2 * h * i * (1/16 * 0 -
               1/16 * 0^2) + i^2 * 0
R3 \leftarrow (a^2 * 0 + 2 * a * b * 0 + 2 * a * c * 0 + 2 * a *
               d * 0 + 2 * a * e * 0 + 2 * a * f * 0 + 2 * a * g * 0 +
               2 * a * h * 0 + 2 * a * i * 0 + b^2 * (7/1024 * 0^4 - 1)
               3/512 * 0^3 + 3/512 * 0^2 + 2 * b * c * (1/12544 + 9/448 *
               0^4 - 117/6272 * 0^3 + 27/1792 * 0^2 + 37/12544 * 0) +
               2 * b * d * ((225 * 0^4)/7168 - (75 * 0^3)/3136 + (33 * 0^4)/7168)
                               0^2/1792 + (9 * 0)/784 + 9/12544) + 2 * b * e *
                (0^4/28 - (3 * 0^3)/196 + (3 * 0^2)/224 + (81 * 0)/3136 +
                               9/3136) + 2 * b * f * ((225 * 0^4)/7168 + (135 * (225 * 0^4)/7168 + (135 * (225 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/7168 + (135 * 0^4)/
               0^3)/25088 + (15 * 0^2)/3584 + (275 * 0)/6272 + 25/3136) +
               2 * b * g * ((9 * 0^4)/448 + (177 * 0^3)/6272 + (3 * 0^4)/448 + (177 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 + (19 * 0^4)/6272 +
                               0^2)/1792 + (765 * 0)/12544 + 225/12544) + 2 * b *
               h * ((7 * 0^4)/1024 + (9 * 0^3)/256 + (3 * 0^2)/128 +
                (9 * 0)/128 + 9/256) + 2 * b * i * (1/16 + 3/32 * 0^2 + 1)
               1/16 * 0) + c^2 * ((81 * 0^4)/1372 - (81 * 0^3)/1372 +
                (81 * 0^2)/2744 + (87 * 0)/5488 + 33/21952) + 2 * c *
               d * ((2025 * 0^4)/21952 - (3375 * 0^3)/43904 + (261 * (261 * 0^4)/43904) + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^4)/43904 + (261 * 0^
               0^2)/12544 + (3453 * 0)/87808 + 573/87808) + 2 * c *
               e * ((36 * 0^4)/343 - (18 * 0^3)/343 - (9 * 0^2)/686 +
                (185 * 0)/2744 + 25/1372) + 2 * c * f * ((2025 * 0^4)/21952 +
                (405 * 0^3)/43904 - (675 * 0^2)/12544 + (7695 * 0)/87808 +
               3555/87808) + 2 * c * g * ((81 * 0^4)/1372 + (27 * 0^3)/343 -
                (171 * 0^2)/2744 + (111 * 0)/1372 + 1713/21952) + 2 *
               c * h * ((9 * 0^4)/448 + (639 * 0^3)/6272 + (261 * 0^2)/12544 +
                (271 * 0)/12544 + 1711/12544) + 2 * c * i * (87/392 + 1711/12544)
               27/98 * 0^2 - 6/49 * 0) + d^2 * ((50625 * 0^4)/351232 -
                (16875 * 0^3)/175616 - (2025 * 0^2)/175616 + (405 * 0)/5488 +
               135/6272) + 2 * d * e * ((225 * 0^4)/1372 - (75 * 0^3)/1372 -
                (789 * 0^2)/10976 + (45 * 0)/448 + 1089/21952) + 2 *
               d * f * ((50625 * 0^4)/351232 + (3375 * 0^3)/87808 -
                (5625 * 0^2)/43904 + (4395 * 0)/43904 + 1185/12544) +
               2 * d * g * ((2025 * 0^4)/21952 + (6075 * 0^3)/43904 -
                               (1539 * 0^2)/12544 + (4293 * 0)/87808 + 14013/87808) +
               2 * d * h * ((225 * 0^4)/7168 + (4125 * 0^3)/25088 +
                               (687 * 0^2)/25088 - (513 * 0)/6272 + 1557/6272) +
               2 * d * i * (285/784 + 675/1568 * 0^2 - 255/784 * 0) +
               e^2 * ((64 * 0^4)/343 - (48 * 0^2)/343 + (36 * 0)/343 +
                               135/1372) + 2 * e * f * ((225 * 0^4)/1372 + (135 * 135/1372))
               0^3)/1372 - (1965 * 0^2)/10976 + (205 * 0)/3136 + 3595/21952) +
               0^2)/686 - (81 * 0)/2744 + 333/1372) + 2 * e * h *
                (0^4/28 + (39 * 0^3)/196 + (93 * 0^2)/1568 - (585 * 0)/3136 +
                               1035/3136) + 2 * e * i * (41/98 + 24/49 * 0^2 - 20/49 * 0^3)
```

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0) + f^2 * ((50625 * 0^4)/351232 + (30375 * 0^3)/175616 -
          (30375 * 0^2)/175616 - (375 * 0)/21952 + 375/1568) +
          2 * f * g * ((2025 * 0^4)/21952 + (9855 * 0^3)/43904 -
                   (1035 * 0^2)/12544 - (11625 * 0)/87808 + 27075/87808) +
          2 * f * h * ((225 * 0^4)/7168 + (1215 * 0^3)/6272 + (1425 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)/7168 + (1215 * 0^4)
                   0^2)/12544 - (785 * 0)/3136 + 4465/12544) + 2 * f *
          i * (285/784 + 675/1568 * 0^2 - 255/784 * 0) + g^2 *
          ((81 * 0^4)/1372 + (297 * 0^3)/1372 + (81 * 0^2)/2744 -
                    (1215 * 0)/5488 + 7425/21952) + 2 * g * h * (3951/12544 +
         9/448 * 0^4 + 933/6272 * 0^3 + 2109/12544 * 0^2 - 3033/12544 *
         0) + 2 * g * i * (87/392 + 27/98 * 0^2 - 6/49 * 0) +
         h^2 * (27/128 + 7/1024 * 0^4 + 39/512 * 0^3 + 93/512 *
                   0^2 - 9/64 * 0) + 2 * h * i * (1/16 + 3/32 * 0^2 + 1)
          1/16 * 0) + i^2 * 0
R2 \leftarrow (a^2 * 0 + 2 * a * b * 0 + 2 * a * c * 0 + 2 * a *
          d * 0 + 2 * a * e * 0 + 2 * a * f * 0 + 2 * a * g * 0 +
          2 * a * h * 0 + 2 * a * i * 0 + b^2 * (-1/512 * 0^4 + a)
          1/512 * 0^3 + 2 * b * c * (-9/1568 * 0^4 + 27/6272 *
         0^3 + 17/12544 * 0^2 + 1/12544 * 0) + 2 * b * d * ((-(225 * 25) + 1/12544 * 0)) + 2 * b * d * ((-(225 * 25) + 1/12544 * 0)))
         0^4)/25088 + (45 * 0^3)/12544 + (117 * 0^2)/25088 +
          (9 * 0)/12544) + 2 * b * e * ((-0^4/98) - 0^3/784 + (27 * 0)
          0^2/3136 + (9 * 0)/3136) + 2 * b * f * ((-(225 * 0^4)/25088) -
          (225 * 0^3)/25088 + (125 * 0^2)/12544 + (25 * 0)/3136) +
          2 * b * g * ((-(9 * 0^4)/1568) - (99 * 0^3)/6272 + (45 * 0^4)/1568)
                   0^2)/12544 + (225 * 0)/12544) + 2 * b * h * ((-0^4/512) -
         0^3/64 - (9 * 0^2)/512 + (9 * 0)/256) + 2 * b * i * (1/16 * 0)
         0 - 1/16 * 0^2) + c^2 * ((-(81 * 0^4)/4802) + (81 * 0^3)/9604 +
          (135 * 0^2)/19208 + (51 * 0)/38416 + 3/38416) + 2 * c *
          d * ((-(2025 * 0^4)/76832) + (1215 * 0^3)/307328 + (10089 *
          0^2)/614656 + (3375 * 0)/614656 + 153/307328) + 2 * c *
          e * ((-(72 * 0^4)/2401) - (27 * 0^3)/2401 + (239 * 0^2)/9604 +
          (281 * 0)/19208 + 33/19208) + 2 * c * f * ((-(2025 * 
          0^4)/76832 - (10125 * 0^3)/307328 + (14625 * 0^2)/614656 +
          (19125 * 0)/614656 + 675/153664) + 2 * c * g * ((-(81 * 
          0^4)/4802 - (243 * 0^3)/4802 + (9 * 0^2)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 + (1107 * 0^4)/19208 
         0)/19208 + 45/4802) + 2 * c * h * ((-(9 * 0^4)/1568) -
          (297 * 0^3)/6272 - (775 * 0^2)/12544 + (1219 * 0)/12544 +
          111/6272) + 2 * c * i * (3/98 - 9/49 * 0^2 + 15/98 *
         0) + d^2 * ((-(50625 * 0^4)/1229312) - (10125 * 0^3)/1229312 +
          (18225 * 0^2)/614656 + (5265 * 0)/307328 + 405/153664) +
         2 * d * e * ((-(225 * 0^4)/4802) - (1305 * 0^3)/38416 +
                    (5499 * 0^2)/153664 + (5679 * 0)/153664 + 621/76832) +
          2 * d * f * ((-(50625 * 0^4)/1229312) - (10125 * 0^3)/153664 +
                   (28575 * 0^2)/1229312 + (39825 * 0)/614656 + 2925/153664) +
         2 * d * g * ((-(2025 * 0^4)/76832) - (27135 * 0^3)/307328 -
                   (13851 * 0^2)/614656 + (60831 * 0)/614656 + 11745/307328) +
          2 * d * h * ((-(225 * 0^4)/25088) - (1935 * 0^3)/25088 -
                   (747 * 0^2)/6272 + (855 * 0)/6272 + 27/392) + 2 *
          d * i * (45/392 - 225/784 * 0^2 + 135/784 * 0) + e^2 *
          ((-(128 * 0^4)/2401) - (160 * 0^3)/2401 + (72 * 0^2)/2401 +
                    (162 * 0)/2401 + 54/2401) + 2 * e * f * ((-(225 * 
          0^4)/4802 - (3825 * 0^3)/38416 - (325 * 0^2)/153664 +
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(15325 * 0)/153664 + 1875/38416) + 2 * e * g * ((-(72 * 
            0^4)/2401) - (279 * 0^3)/2401 - (657 * 0^2)/9604 + (2367 * 0^4)/2401
            0)/19208 + 1755/19208) + 2 * e * h * ((-0^4/98) - (73 *
            0^3/784 - (549 * 0^2)/3136 + (387 * 0)/3136 + 243/1568) +
            2 * e * i * (12/49 - 16/49 * 0^2 + 4/49 * 0) + f^2 *
             ((-(50625 * 0^4)/1229312) - (151875 * 0^3)/1229312 -
                         (16875 * 0^2)/307328 + (9375 * 0)/76832 + 1875/19208) +
            2 * f * g * ((-(2025 * 0^4)/76832) - (38475 * 0^3)/307328 -
                         (79875 * 0^2)/614656 + (69525 * 0)/614656 + 25875/153664) +
            2 * f * h * ((-(225 * 0^4)/25088) - (1125 * 0^3)/12544 -
                         (5375 * 0^2)/25088 + (625 * 0)/12544 + 825/3136) +
            2 * f * i * (75/196 - 225/784 * 0^2 - 75/784 * 0) + g^2 *
             ((-(81 * 0^4)/4802) - (1053 * 0^3)/9604 - (3645 * 0^2)/19208 +
                         9/1568 * 0^4 - 423/6272 * 0^3 - 2763/12544 * 0^2 - 909/12544 *
            0) + 2 * g * i * (45/98 - 9/49 * 0^2 - 27/98 * 0) + h^2 *
             (27/64 - 1/512 * 0^4 - 17/512 * 0^3 - 45/256 * 0^2 -
                         27/128 * 0) + 2 * h * i * (3/8 - 1/16 * 0^2 - 5/16 *
            0) + i^2 * 0
R1 \leftarrow (a^2 * 0 + 2 * a * b * 0 + 2 * a * c * 0 + 2 * a *
            d * 0 + 2 * a * e * 0 + 2 * a * f * 0 + 2 * a * g * 0 +
            2 * a * h * 0 + 2 * a * i * 0 + b^2 * (1/4096 * 0^4) +
            2 * b * c * (9/12544 * 0^4 + 3/12544 * 0^3 + 1/50176 *
                        0^2 + 2 * b * d * ((225 * 0^4)/200704 + (45 * 0^3)/50176 +
             (9 * 0^2)/50176) + 2 * b * e * (0^4/784 + (3 * 0^3)/1568 +
             (9 * 0^2)/12544) + 2 * b * f * ((225 * 0^4)/200704 +
             (75 * 0^3)/25088 + (25 * 0^2)/12544) + 2 * b * g * ((9 * 0^3)/25088)
            0^4)/12544 + (45 * 0^3)/12544 + (225 * 0^2)/50176) +
            2 * b * h * (0^4/4096 + (3 * 0^3)/1024 + (9 * 0^2)/1024) +
            2 * b * i * (1/64 * 0^2) + c^2 * ((81 * 0^4)/38416 +
             (27 * 0^3)/19208 + (27 * 0^2)/76832 + (3 * 0)/76832 +
            1/614656) + 2 * c * d * ((2025 * 0^4)/614656 + (2295 *
            0^3)/614656 + (3681 * 0^2)/2458624 + (153 * 0)/614656 +
            9/614656) + 2 * c * e * ((9 * 0^4)/2401 + (33 * 0^3)/4802 +
             (157 * 0^2)/38416 + (33 * 0)/38416 + 9/153664) + 2 *
            c * f * ((2025 * 0^4)/614656 + (6075 * 0^3)/614656 +
             (21825 * 0^2)/2458624 + (675 * 0)/307328 + 25/153664) +
            2 * c * g * ((81 * 0^4)/38416 + (27 * 0^3)/2401 + (1287 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416 + (27 * 0^4)/38416
                         0^2)/76832 + (45 * 0)/9604 + 225/614656) + 2 * c *
           h * ((9 * 0^4)/12544 + (111 * 0^3)/12544 + (1441 * 0^2)/50176 +
             (111 * 0)/12544 + 9/12544) + 2 * c * i * (1/784 + 9/196 *
            0^2 + 3/196 * 0) + d^2 * ((50625 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/984496 + (10125 * 0^4)/984496 + (10125 * 0^4)/984496 + (1012
            0^3)/1229312 + (6075 * 0^2)/1229312 + (405 * 0)/307328 +
            81/614656) + 2 * d * e * ((225 * 0^4)/38416 + (1035 *
            0^3/76832 + (6921 * 0^2)/614656 + (621 * 0)/153664 +
            81/153664) + 2 * d * f * ((50625 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9844496 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/984449 + (43875 * 0^4)/98449 + (43875 * 0^4)/98449 + (43875 *
            0^3)/2458624 + (51525 * 0^2)/2458624 + (2925 * 0)/307328 +
            225/153664) + 2 * d * g * ((2025 * 0^4)/614656 + (11745 *
            0^3)/614656 + (84321 * 0^2)/2458624 + (11745 * 0)/614656 +
            2025/614656) + 2 * d * h * ((225 * 0^4)/200704 + (45 * 10))
            0^3)/3136 + (1287 * 0^2)/25088 + (27 * 0)/784 + 81/12544) +
            2 * d * i * (9/784 + 225/3136 * 0^2 + 45/784 * 0) + e^2 *
```

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((16 * 0^4)/2401 + (48 * 0^3)/2401 + (54 * 0^2)/2401 +
              (27 * 0)/2401 + 81/38416) + 2 * e * f * ((225 * 0^4)/38416 +
       (1875 * 0^3)/76832 + (22825 * 0^2)/614656 + (1875 * 0)/76832 +
       225/38416) + 2 * e * g * ((9 * 0^4)/2401 + (117 * 0^3)/4802 +
       (2061 * 0^2)/38416 + (1755 * 0)/38416 + 2025/153664) +
       2 * e * h * (0^4/784 + (27 * 0^3)/1568 + (873 * 0^2)/12544 +
              (243 * 0)/3136 + 81/3136) + 2 * e * i * (9/196 +
       4/49 * 0^2 + 6/49 * 0) + f^2 * ((50625 * 0^4)/9834496 +
       (16875 * 0^3)/614656 + (16875 * 0^2)/307328 + (1875 *
      0)/38416 + 625/38416) + 2 * f * g * ((2025 * 0^4)/614656 +
       (15525 * 0^3)/614656 + (173025 * 0^2)/2458624 + (25875 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/6166 + (173025 * 0^3)/61666 + (173025 * 0^3)/6166 + (173025 * 0^3)/6166 + (173025 * 0^3)/6166 + (173025 * 0^3)/6166 +
      0)/307328 + 5625/153664) + 2 * f * h * ((225 * 0^4)/200704 +
       (825 * 0^3)/50176 + (3925 * 0^2)/50176 + (825 * 0)/6272 +
      225/3136) + 2 * f * i * (25/196 + 225/3136 * 0^2 + 75/392 *
      0) + g^2 * ((81 * 0^4)/38416 + (405 * 0^3)/19208 + (6075 *
      0^2)/76832 + (10125 * 0)/76832 + 50625/614656) + 2 *
       g * h * (2025/12544 + 9/12544 * 0^4 + 153/12544 * 0^3 +
      3681/50176 * 0^2 + 2295/12544 * 0) + 2 * g * i * (225/784 +
      9/196 * 0^2 + 45/196 * 0) + h^2 * (81/256 + 1/4096 * 
      0^4 + 3/512 * 0^3 + 27/512 * 0^2 + 27/128 * 0) + 2 *
      h * i * (9/16 + 1/64 * 0^2 + 3/16 * 0) + i^2 * 1)
fai9.9 = (2 * a^2 * 1 + 2 * a * b * (9/16) + 2 * a * c *
       (225/784) + 2 * a * d * (25/196) + 2 * a * e * (9/196) +
       2 * a * f * (9/784) + 2 * a * g * (1/784))/R9
fai9.8 = (2 * a^2 * 0 + 2 * a * b * (3/8) + 2 * a * c * (45/98) +
      2 * a * d * (75/196) + 2 * a * e * (12/49) + 2 * a *
       f * (45/392) + 2 * a * g * (3/98))/R8
fai9.7 = (2 * a^2 * 0 + 2 * a * b * (1/16) + 2 * a * c *
       (87/392) + 2 * a * d * (285/784) + 2 * a * e * (41/98) +
       2 * a * f * (285/784) + 2 * a * g * (87/392) + 2 * a *
      h * (1/16))/R7
fai9.6 = (2 * a^2 * 0 + 2 * a * b * 0 + 2 * a * c * (3/98) +
      2 * a * d * (45/392) + 2 * a * e * (12/49) + 2 * a *
      f * (75/196) + 2 * a * g * (45/98) + 2 * a * h * (3/8))/R6
fai9.5 = (2 * a^2 * 0 + 2 * a * b * 0 + 2 * a * c * (1/784) +
      2 * a * d * (9/784) + 2 * a * e * (9/196) + 2 * a * f *
       (25/196) + 2 * a * g * (225/784) + 2 * a * h * (9/16) +
      2 * a * i * 1)/R5
fai8.9 = (2 * a * b * (9/16) + 2 * b^2 * (81/256) + 2 * b *
       c * (2025/12544) + 2 * b * d * (225/3136) + 2 * b * e *
       (81/3136) + 2 * b * f * (81/12544) + 2 * b * g * (9/12544))/R9
fai8.8 = (2 * a * b * (3/8) + 2 * b^2 * (27/64) + 2 * b *
       c * (2295/6272) + 2 * b * d * (825/3136) + 2 * b * e *
       (243/1568) + 2 * b * f * (27/392) + 2 * b * g * (111/6272))/R8
fai8.7 = (2 * a * b * (1/16) + 2 * b^2 * (27/128) + 2 * b *
      c * (3951/12544) + 2 * b * d * (4465/12544) + 2 * b *
       e * (1035/3136) + 2 * b * f * (1557/6272) + 2 * b * g *
       (1711/12544) + 2 * b * h * (9/256))/R7
fai8.6 = (2 * a * b * 0 + 2 * b^2 * (3/64) + 2 * b * c *
       (405/3136) + 2 * b * d * (705/3136) + 2 * b * e * (243/784) +
       2 * b * f * (1125/3136) + 2 * b * g * (1077/3136) + 2 *
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b * h * (15/64))/R6
fai8.5 = (2 * a * b * 0 + 2 * b^2 * (1/256) + 2 * b * c *
    (327/12544) + 2 * b * d * (453/6272) + 2 * b * e * (451/3136) +
    2 * b * f * (2985/12544) + 2 * b * g * (4359/12544) +
    2 * b * h * (59/128))/R5
fai8.4 = (2 * a * b * 0 + 2 * b^2 * 0 + 2 * b * c * (15/6272) +
    2 * b * d * (9/784) + 2 * b * e * (51/1568) + 2 * b *
    f * (225/3136) + 2 * b * g * (855/6272) + 2 * b * h *
    (15/64) + 2 * b * i * (3/8))/R4
fai8.3 = (2 * a * b * 0 + 2 * b^2 * 0 + 2 * b * c * (1/12544) +
   2 * b * d * (9/12544) + 2 * b * e * (9/3136) + 2 * b *
    f * (25/3136) + 2 * b * g * (225/12544) + 2 * b * h *
    (9/256) + 2 * b * i * (1/16))/R3
fai7.9 = (2 * a * c * (225/784) + 2 * b * c * (2025/12544) +
    2 * c^2 * (50625/614656) + 2 * c * d * (5625/153664) +
    2 * c * e * (2025/153664) + 2 * c * f * (2025/614656) +
    2 * c * g * (225/614656))/R9
fai7.8 = (2 * a * c * (45/98) + 2 * b * c * (2295/6272) +
    2 * c^2 * (10125/38416) + 2 * c * d * (25875/153664) +
    2 * c * e * (1755/19208) + 2 * c * f * (11745/307328) +
    2 * c * g * (45/4802))/R8
fai7.7 = (2 * a * c * (87/392) + 2 * b * c * (3951/12544) +
    2 * c^2 * (7425/21952) + 2 * c * d * (27075/87808) +
    2 * c * e * (333/1372) + 2 * c * f * (14013/87808) +
    2 * c * g * (1713/21952) + 2 * c * h * (225/12544))/R7
fai7.6 = (2 * a * c * (3/98) + 2 * b * c * (405/3136) + 2 *
    c^2 * (1215/5488) + 2 * c * d * (12675/43904) + 2 * c *
    e * (873/2744) + 2 * c * f * (3321/10976) + 2 * c * g *
    (165/686) + 2 * c * h * (855/6272))/R6
fai7.5 = (2 * a * c * (1/784) + 2 * b * c * (327/12544) +
    2 * c^2 * (3429/43904) + 2 * c * d * (13045/87808) +
    2 * c * e * (2481/10976) + 2 * c * f * (26037/87808) +
    2 * c * g * (15077/43904) + 2 * c * h * (4359/12544) +
    2 * c * i * (225/784))/R5
fai7.4 = (2 * a * c * 0 + 2 * b * c * (15/6272) + 2 * c^2 *
    (81/5488) + 2 * c * d * (465/10976) + 2 * c * e * (243/2744) +
    2 * c * f * (6795/43904) + 2 * c * g * (165/686) + 2 *
    c * h * (1077/3136) + 2 * c * i * (45/98))/R4
fai7.3 = (2 * a * c * 0 + 2 * b * c * (1/12544) + 2 * c^2 *
    (33/21952) + 2 * c * d * (573/87808) + 2 * c * e * (25/1372) +
    2 * c * f * (3555/87808) + 2 * c * g * (1713/21952) +
    2 * c * h * (1711/12544) + 2 * c * i * (87/392))/R3
fai7.2 = (2 * a * c * 0 + 2 * b * c * 0 + 2 * c^2 * (3/38416) +
    2 * c * d * (153/307328) + 2 * c * e * (33/19208) + 2 *
    c * f * (675/153664) + 2 * c * g * (45/4802) + 2 * c *
   h * (111/6272) + 2 * c * i * (3/98))/R2
fai7.1 = (2 * a * c * 0 + 2 * b * c * 0 + 2 * c^2 * (1/614656) +
   2 * c * d * (9/614656) + 2 * c * e * (9/153664) + 2 *
    c * f * (25/153664) + 2 * c * g * (225/614656) + 2 *
    c * h * (9/12544) + 2 * c * i * (1/784))/R1
fai6.9 = (2 * a * d * (25/196) + 2 * b * d * (225/3136) +
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2 * c * d * (5625/153664) + 2 * d^2 * (625/38416) + 2 *
    d * e * (225/38416) + 2 * d * f * (225/153664) + 2 *
    d * g * (25/153664) + 2 * d * h * (0) + 2 * d * i * (0))/R9
fai6.8 = (2 * a * d * (75/196) + 2 * b * d * (825/3136) +
    2 * c * d * (25875/153664) + 2 * d^2 * (1875/19208) +
    2 * d * e * (1875/38416) + 2 * d * f * (2925/153664) +
    2 * d * g * (675/153664) + 2 * d * h * (0) + 2 * d *
    i * (0))/R8
fai6.7 = (2 * a * d * (285/784) + 2 * b * d * (4465/12544) +
    2 * c * d * (27075/87808) + 2 * d^2 * (375/1568) + 2 *
    d * e * (3595/21952) + 2 * d * f * (1185/12544) + 2 *
    d * g * (3555/87808) + 2 * d * h * (25/3136) + 2 * d *
    i * (0))/R7
fai6.6 = (2 * a * d * (45/392) + 2 * b * d * (705/3136) +
    2 * c * d * (12675/43904) + 2 * d^2 * (3375/10976) +
    2 * d * e * (3135/10976) + 2 * d * f * (2535/10976) +
    2 * d * g * (6795/43904) + 2 * d * h * (225/3136) + 2 *
    d * i * (0))/R6
fai6.5 = (2 * a * d * (9/784) + 2 * b * d * (453/6272) +
    2 * c * d * (13045/87808) + 2 * d^2 * (19575/87808) +
    2 * d * e * (879/3136) + 2 * d * f * (13529/43904) +
    2 * d * g * (26037/87808) + 2 * d * h * (2985/12544) +
    2 * d * i * (25/196))/R5
fai6.4 = (2 * a * d * (0) + 2 * b * d * (9/784) + 2 * c *
    d * (465/10976) + 2 * d^2 * (2025/21952) + 2 * d * e *
    (54/343) + 2 * d * f * (2535/10976) + 2 * d * g * (3321/10976) +
    2 * d * h * (1125/3136) + 2 * d * i * (75/196))/R4
fai6.3 = (2 * a * d * (0) + 2 * b * d * (9/12544) + 2 * c *
    d * (573/87808) + 2 * d^2 * (135/6272) + 2 * d * e *
    (1089/21952) + 2 * d * f * (1185/12544) + 2 * d * g *
    (14013/87808) + 2 * d * h * (1557/6272) + 2 * d * i *
    (285/784))/R3
fai6.2 = (2 * a * d * (0) + 2 * b * d * (0) + 2 * c * d *
    (153/307328) + 2 * d^2 * (405/153664) + 2 * d * e * (621/76832) +
    2 * d * f * (2925/153664) + 2 * d * g * (11745/307328) +
    2 * d * h * (27/392) + 2 * d * i * (45/392))/R2
fai6.1 = (2 * a * d * (0) + 2 * b * d * (0) + 2 * c * d *
    (9/614656) + 2 * d^2 * (81/614656) + 2 * d * e * (81/153664) +
    2 * d * f * (225/153664) + 2 * d * g * (2025/614656) +
    2 * d * h * (81/12544) + 2 * d * i * (9/784))/R1
fai5.9 = (2 * a * e * (9/196) + 2 * b * e * (81/3136) + 2 *
    c * e * (2025/153664) + 2 * d * e * (225/38416) + 2 *
    e^2 * (81/38416) + 2 * e * f * (81/153664) + 2 * e *
    g * (9/153664) + 2 * e * h * (0) + 2 * e * i * (0))/R9
fai5.8 = (2 * a * e * (12/49) + 2 * b * e * (243/1568) +
    2 * c * e * (1755/19208) + 2 * d * e * (1875/38416) +
    2 * e^2 * (54/2401) + 2 * e * f * (621/76832) + 2 * e *
    g * (33/19208) + 2 * e * h * (0) + 2 * e * i * (0))/R8
fai5.7 = (2 * a * e * (41/98) + 2 * b * e * (1035/3136) +
    2 * c * e * (333/1372) + 2 * d * e * (3595/21952) + 2 *
    e^2 * (135/1372) + 2 * e * f * (1089/21952) + 2 * e *
    g * (25/1372) + 2 * e * h * (9/3136) + 2 * e * i * (0))/R7
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fai5.6 = (2 * a * e * (12/49) + 2 * b * e * (243/784) + 2 *
    c * e * (873/2744) + 2 * d * e * (3135/10976) + 2 * e^2 *
    (78/343) + 2 * e * f * (54/343) + 2 * e * g * (243/2744) +
    2 * e * h * (51/1568) + 2 * e * i * (0))/R6
fai5.5 = (2 * a * e * (9/196) + 2 * b * e * (451/3136) +
    2 * c * e * (2481/10976) + 2 * d * e * (879/3136) + 2 *
    e^2 * (821/2744) + 2 * e * f * (879/3136) + 2 * e * g *
    (2481/10976) + 2 * e * h * (451/3136) + 2 * e * i * (9/196))/R5
fai5.4 = (2 * a * e * (0) + 2 * b * e * (51/1568) + 2 * c *
    e * (243/2744) + 2 * d * e * (54/343) + 2 * e^2 * (78/343) +
    2 * e * f * (3135/10976) + 2 * e * g * (873/2744) + 2 *
    e * h * (243/784) + 2 * e * i * (12/49))/R4
fai5.3 = (2 * a * e * (0) + 2 * b * e * (9/3136) + 2 * c *
    e * (25/1372) + 2 * d * e * (1089/21952) + 2 * e^2 *
    (135/1372) + 2 * e * f * (3595/21952) + 2 * e * g * (333/1372) +
    2 * e * h * (1035/3136) + 2 * e * i * (41/98))/R3
fai5.2 = (2 * a * e * (0) + 2 * b * e * (0) + 2 * c * e *
    (33/19208) + 2 * d * e * (621/76832) + 2 * e^2 * (54/2401) +
    2 * e * f * (1875/38416) + 2 * e * g * (1755/19208) +
    2 * e * h * (243/1568) + 2 * e * i * (12/49))/R2
fai5.1 = (2 * a * e * (0) + 2 * b * e * (0) + 2 * c * e *
    (9/153664) + 2 * d * e * (81/153664) + 2 * e^2 * (81/38416) +
    2 * e * f * (225/38416) + 2 * e * g * (2025/153664) +
    2 * e * h * (81/3136) + 2 * e * i * (9/196))/R1
fai4.9 = (2 * a * f * (9/784) + 2 * b * f * (81/12544) +
    2 * c * f * (2025/614656) + 2 * d * f * (225/153664) +
    2 * e * f * (81/153664) + 2 * f^2 * (81/614656) + 2 *
    f * g * (9/614656) + 2 * f * h * (0) + 2 * f * i * (0))/R9
fai4.8 = (2 * a * f * (45/392) + 2 * b * f * (27/392) + 2 *
    c * f * (11745/307328) + 2 * d * f * (2925/153664) +
    2 * e * f * (621/76832) + 2 * f^2 * (405/153664) + 2 *
    f * g * (153/307328) + 2 * f * h * (0) + 2 * f * i *
    (0))/R8
fai4.7 = (2 * a * f * (285/784) + 2 * b * f * (1557/6272) +
    2 * c * f * (14013/87808) + 2 * d * f * (1185/12544) +
    2 * e * f * (1089/21952) + 2 * f^2 * (135/6272) + 2 *
    f * g * (573/87808) + 2 * f * h * (9/12544) + 2 * f *
    i * (0))/R7
fai4.6 = (2 * a * f * (75/196) + 2 * b * f * (1125/3136) +
    2 * c * f * (3321/10976) + 2 * d * f * (2535/10976) +
    2 * e * f * (54/343) + 2 * f^2 * (2025/21952) + 2 * f *
    g * (465/10976) + 2 * f * h * (9/784) + 2 * f * i * (0))/R6
fai4.5 = (2 * a * f * (25/196) + 2 * b * f * (2985/12544) +
   2 * c * f * (26037/87808) + 2 * d * f * (13529/43904) +
    2 * e * f * (879/3136) + 2 * f^2 * (19575/87808) + 2 *
    f * g * (13045/87808) + 2 * f * h * (453/6272) + 2 *
    f * i * (9/784))/R5
fai4.4 = (2 * a * f * (0) + 2 * b * f * (225/3136) + 2 *
   c * f * (6795/43904) + 2 * d * f * (2535/10976) + 2 *
    e * f * (3135/10976) + 2 * f^2 * (3375/10976) + 2 * f *
    g * (12675/43904) + 2 * f * h * (705/3136) + 2 * f *
    i * (45/392))/R4
```

```
fai4.3 = (2 * a * f * (0) + 2 * b * f * (25/3136) + 2 * c *
    f * (3555/87808) + 2 * d * f * (1185/12544) + 2 * e *
    f * (3595/21952) + 2 * f^2 * (375/1568) + 2 * f * g *
    (27075/87808) + 2 * f * h * (4465/12544) + 2 * f * i *
    (285/784))/R3
fai4.2 = (2 * a * f * (0) + 2 * b * f * (0) + 2 * c * f *
    (675/153664) + 2 * d * f * (2925/153664) + 2 * e * f *
    (1875/38416) + 2 * f^2 * (1875/19208) + 2 * f * g * (25875/153664) +
    2 * f * h * (825/3136) + 2 * f * i * (75/196))/R2
fai4.1 = (2 * a * f * (0) + 2 * b * f * (0) + 2 * c * f *
    (25/153664) + 2 * d * f * (225/153664) + 2 * e * f *
    (225/38416) + 2 * f^2 * (625/38416) + 2 * f * g * (5625/153664) +
    2 * f * h * (225/3136) + 2 * f * i * (25/196))/R1
fai3.9 = (2 * a * g * (1/784) + 2 * b * g * (9/12544) + 2 *
    c * g * (225/614656) + 2 * d * g * (25/153664) + 2 *
    e * g * (9/153664) + 2 * f * g * (9/614656) + 2 * g^2 *
    (1/614656) + 2 * g * h * (0) + 2 * g * i * (0))/R9
fai3.8 = (2 * a * g * (3/98) + 2 * b * g * (111/6272) + 2 *
    c * g * (45/4802) + 2 * d * g * (675/153664) + 2 * e *
    g * (33/19208) + 2 * f * g * (153/307328) + 2 * g^2 *
    (3/38416) + 2 * g * h * (0) + 2 * g * i * (0))/R8
fai3.7 = (2 * a * g * (87/392) + 2 * b * g * (1711/12544) +
    2 * c * g * (1713/21952) + 2 * d * g * (3555/87808) +
    2 * e * g * (25/1372) + 2 * f * g * (573/87808) + 2 *
    g^2 * (33/21952) + 2 * g * h * (1/12544) + 2 * g * i *
    (0))/R7
fai3.6 = (2 * a * g * (45/98) + 2 * b * g * (1077/3136) +
    2 * c * g * (165/686) + 2 * d * g * (6795/43904) + 2 *
    e * g * (243/2744) + 2 * f * g * (465/10976) + 2 * g^2 *
    (81/5488) + 2 * g * h * (15/6272) + 2 * g * i * (0))/R6
fai3.5 = (2 * a * g * (225/784) + 2 * b * g * (4359/12544) +
    2 * c * g * (15077/43904) + 2 * d * g * (26037/87808) +
    2 * e * g * (2481/10976) + 2 * f * g * (13045/87808) +
    2 * g^2 * (3429/43904) + 2 * g * h * (327/12544) + 2 *
    g * i * (1/784))/R5
fai3.4 = (2 * a * g * (0) + 2 * b * g * (855/6272) + 2 *
    c * g * (165/686) + 2 * d * g * (3321/10976) + 2 * e *
    g * (873/2744) + 2 * f * g * (12675/43904) + 2 * g^2 *
    (1215/5488) + 2 * g * h * (405/3136) + 2 * g * i * (3/98))/R4
fai3.3 = (2 * a * g * (0) + 2 * b * g * (225/12544) + 2 *
    c * g * (1713/21952) + 2 * d * g * (14013/87808) + 2 *
    e * g * (333/1372) + 2 * f * g * (27075/87808) + 2 *
    g^2 * (7425/21952) + 2 * g * h * (3951/12544) + 2 * g *
    i * (87/392))/R3
fai3.2 = (2 * a * g * (0) + 2 * b * g * (0) + 2 * c * g *
    (45/4802) + 2 * d * g * (11745/307328) + 2 * e * g *
    (1755/19208) + 2 * f * g * (25875/153664) + 2 * g^2 *
    (10125/38416) + 2 * g * h * (2295/6272) + 2 * g * i *
    (45/98))/R2
fai3.1 = (2 * a * g * (0) + 2 * b * g * (0) + 2 * c * g *
    (225/614656) + 2 * d * g * (2025/614656) + 2 * e * g *
    (2025/153664) + 2 * f * g * (5625/153664) + 2 * g^2 *
```

```
(50625/614656) + 2 * g * h * (2025/12544) + 2 * g * i *
    (225/784))/R1
fai2.9 = (2 * a * h * (0) + 2 * b * h * (0) + 2 * c * h *
    (0) + 2 * d * h * (0) + 2 * e * h * (0) + 2 * f * h *
    (0) + 2 * g * h * (0) + 2 * h^2 * (0) + 2 * h * i * (0))/R9
fai2.8 = (2 * a * h * (0) + 2 * b * h * (0) + 2 * c * h *
    (0) + 2 * d * h * (0) + 2 * e * h * (0) + 2 * f * h *
    (0) + 2 * g * h * (0) + 2 * h^2 * (0) + 2 * h * i * (0))/R8
fai2.7 = (2 * a * h * (1/16) + 2 * b * h * (9/256) + 2 *
    c * h * (225/12544) + 2 * d * h * (25/3136) + 2 * e *
   h * (9/3136) + 2 * f * h * (9/12544) + 2 * g * h * (1/12544) +
    2 * h^2 * (0) + 2 * h * i * (0))/R7
fai2.6 = (2 * a * h * (3/8) + 2 * b * h * (15/64) + 2 * c *
   h * (855/6272) + 2 * d * h * (225/3136) + 2 * e * h *
    (51/1568) + 2 * f * h * (9/784) + 2 * g * h * (15/6272) +
    2 * h^2 * (0) + 2 * h * i * (0))/R6
fai2.5 = (2 * a * h * (9/16) + 2 * b * h * (59/128) + 2 *
    c * h * (4359/12544) + 2 * d * h * (2985/12544) + 2 *
    e * h * (451/3136) + 2 * f * h * (453/6272) + 2 * g *
    h * (327/12544) + 2 * h^2 * (1/256) + 2 * h * i * (0))/R5
fai2.4 = (2 * a * h * (0) + 2 * b * h * (15/64) + 2 * c *
   h * (1077/3136) + 2 * d * h * (1125/3136) + 2 * e * h *
    (243/784) + 2 * f * h * (705/3136) + 2 * g * h * (405/3136) +
    2 * h^2 * (3/64) + 2 * h * i * (0))/R4
fai2.3 = (2 * a * h * (0) + 2 * b * h * (9/256) + 2 * c *
   h * (1711/12544) + 2 * d * h * (1557/6272) + 2 * e *
   h * (1035/3136) + 2 * f * h * (4465/12544) + 2 * g *
    h * (3951/12544) + 2 * h^2 * (27/128) + 2 * h * i * (1/16))/R3
fai2.2 = (2 * a * h * (0) + 2 * b * h * (0) + 2 * c * h *
    (111/6272) + 2 * d * h * (27/392) + 2 * e * h * (243/1568) +
    2 * f * h * (825/3136) + 2 * g * h * (2295/6272) + 2 *
   h^2 * (27/64) + 2 * h * i * (3/8))/R2
fai2.1 = (2 * a * h * (0) + 2 * b * h * (0) + 2 * c * h *
    (9/12544) + 2 * d * h * (81/12544) + 2 * e * h * (81/3136) +
    2 * f * h * (225/3136) + 2 * g * h * (2025/12544) + 2 *
   h^2 * (81/256) + 2 * h * i * (9/16))/R1
fai1.9 = (2 * a * i * (0) + 2 * b * i * (0) + 2 * c * i *
    (0) + 2 * d * i * (0) + 2 * e * i * (0) + 2 * f * i *
    (0) + 2 * g * i * (0) + 2 * h * i * (0) + 2 * i^2 * (0))/R9
fai1.8 = (2 * a * i * (0) + 2 * b * i * (0) + 2 * c * i *
    (0) + 2 * d * i * (0) + 2 * e * i * (0) + 2 * f * i *
    (0) + 2 * g * i * (0) + 2 * h * i * (0) + 2 * i^2 * (0))/R8
fai1.7 = (2 * a * i * (0) + 2 * b * i * (0) + 2 * c * i *
    (0) + 2 * d * i * (0) + 2 * e * i * (0) + 2 * f * i *
    (0) + 2 * g * i * (0) + 2 * h * i * (0) + 2 * i^2 * (0))/R7
fai1.6 = (2 * a * i * (0) + 2 * b * i * (0) + 2 * c * i *
    (0) + 2 * d * i * (0) + 2 * e * i * (0) + 2 * f * i *
    (0) + 2 * g * i * (0) + 2 * h * i * (0) + 2 * i^2 * (0))/R6
fai1.5 = (2 * a * i * (1) + 2 * b * i * (9/16) + 2 * c *
    i * (225/784) + 2 * d * i * (25/196) + 2 * e * i * (9/196) +
    2 * f * i * (9/784) + 2 * g * i * (1/784) + 2 * h * i *
```

```
(0) + 2 * i^2 * (0))/R5
fai1.4 = (2 * a * i * (0) + 2 * b * i * (3/8) + 2 * c * i *
    (45/98) + 2 * d * i * (75/196) + 2 * e * i * (12/49) +
    2 * f * i * (45/392) + 2 * g * i * (3/98) + 2 * h * i *
    (0) + 2 * i^2 * (0))/R4
fai1.3 = (2 * a * i * (0) + 2 * b * i * (1/16) + 2 * c *
    i * (87/392) + 2 * d * i * (285/784) + 2 * e * i * (41/98) +
    2 * f * i * (285/784) + 2 * g * i * (87/392) + 2 * h *
    i * (1/16) + 2 * i^2 * (0))/R3
fai1.2 = (2 * a * i * (0) + 2 * b * i * (0) + 2 * c * i *
    (3/98) + 2 * d * i * (45/392) + 2 * e * i * (12/49) +
    2 * f * i * (75/196) + 2 * g * i * (45/98) + 2 * h *
    i * (3/8) + 2 * i^2 * (0))/R2
fai1.1 = (2 * a * i * (0) + 2 * b * i * (0) + 2 * c * i *
    (1/784) + 2 * d * i * (9/784) + 2 * e * i * (9/196) +
    2 * f * i * (25/196) + 2 * g * i * (225/784) + 2 * h *
    i * (9/16) + 2 * i^2 * (1))/R1
P.9 = (fai9.9 * n9 + fai9.8 * n8 + fai9.7 * n7 + fai9.6 *
    n6 + fai9.5 * n5)/(2 * N)
P.8 = (fai8.9 * n9 + fai8.8 * n8 + fai8.7 * n7 + fai8.6 *
   n6 + fai8.5 * n5 + fai8.4 * n4 + fai8.3 * n3)/(2 * N)
P.7 = (fai7.9 * n9 + fai7.8 * n8 + fai7.7 * n7 + fai7.6 *
   n6 + fai7.5 * n5 + fai7.4 * n4 + fai7.3 * n3 + fai7.2 *
    n2 + fai7.1 * n1)/(2 * N)
P.6 = (fai6.9 * n9 + fai6.8 * n8 + fai6.7 * n7 + fai6.6 *
   n6 + fai6.5 * n5 + fai6.4 * n4 + fai6.3 * n3 + fai6.2 *
   n2 + fai6.1 * n1)/(2 * N)
P.5 = (fai5.9 * n9 + fai5.8 * n8 + fai5.7 * n7 + fai5.6 *
   n6 + fai5.5 * n5 + fai5.4 * n4 + fai5.3 * n3 + fai5.2 *
   n2 + fai5.1 * n1)/(2 * N)
P.4 = (fai4.9 * n9 + fai4.8 * n8 + fai4.7 * n7 + fai4.6 *
   n6 + fai4.5 * n5 + fai4.4 * n4 + fai4.3 * n3 + fai4.2 *
    n2 + fai4.1 * n1)/(2 * N)
P.3 = (fai3.9 * n9 + fai3.8 * n8 + fai3.7 * n7 + fai3.6 *
    n6 + fai3.5 * n5 + fai3.4 * n4 + fai3.3 * n3 + fai3.2 *
   n2 + fai3.1 * n1)/(2 * N)
P.2 = (fai2.9 * n9 + fai2.8 * n8 + fai2.7 * n7 + fai2.6 *
   n6 + fai2.5 * n5 + fai2.4 * n4 + fai2.3 * n3 + fai2.2 *
    n2 + fai2.1 * n1)/(2 * N)
P.1 = (fai1.9 * n9 + fai1.8 * n8 + fai1.7 * n7 + fai1.6 *
   n6 + fai1.5 * n5 + fai1.4 * n4 + fai1.3 * n3 + fai1.2 *
   n2 + fai1.1 * n1)/(2 * N)
geno.p <- rbind(geno.p, c(a, b, c, d, e, f, g, h, i))
a < - P.9
b <- P.8
c \leftarrow P.7
d \leftarrow P.6
e < - P.5
f \leftarrow P.4
g <- P.3
h \leftarrow P.2
```

```
i <- P.1
}
a <- geno.p[500, 1]
b <- geno.p[500, 2]
c <- geno.p[500, 3]
d <- geno.p[500, 4]
e <- geno.p[500, 5]
f <- geno.p[500, 6]
g <- geno.p[500, 7]
h <- geno.p[500, 8]
i <- geno.p[500, 9]</pre>
geno.L <- rbind(geno.L, c(a, b, c, d, e, f, g, h, i))
```

This obtains the final genotype frequency estimates, which they call exp

```
R.9 \leftarrow (a^2 * 1 + 2 * a * b * (9/16 + 1/64 * 0^2 + 3/16 * 0) +
                           2 * a * c * (225/784 + 9/196 * 0^2 + 45/196 * 0) + 2 * a *
                           d * (25/196 + 225/3136 * 0^2 + 75/392 * 0) + 2 * a * e *
                             (9/196 + 4/49 * 0^2 + 6/49 * 0) + 2 * a * f * (9/784 + 225/3136 *
                           0^2 + 45/784 * 0) + 2 * a * g * (1/784 + 9/196 * 0^2 + 3/196 * 0^3 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3/196 * 0^4 + 3
                           0) + 2 * a * h * (1/64 * 0^2) + 0 + b^2 * (81/256 + 1/4096 * 1/4096)
                           0^4 + 3/512 * 0^3 + 27/512 * 0^2 + 27/128 * 0) + 2 * b *
                            c * (2025/12544 + 9/12544 * 0^4 + 153/12544 * 0^3 + 3681/50176 *
                           0^2 + 2295/12544 * 0) + 2 * b * d * ((225 * 0^4)/200704 +
                             (825 * 0^3)/50176 + (3925 * 0^2)/50176 + (825 * 0)/6272 +
                           225/3136) + 2 * b * e * (0^4/784 + (27 * 0^3)/1568 + (873 * (27 * 0^3)/1568) + (873 * (27 * 0^3)/1568)
                           0^2)/12544 + (243 * 0)/3136 + 81/3136) + 2 * b * f * ((225 * 0))/3136 + (243 * 0)/3136 + (243 * 0)/3136) + 2 * b * f * ((225 * 0))/3136 + (243 * 0)/3136 + (243 * 0)/3136) + 2 * b * f * ((225 * 0))/3136 + (243 * 0)/3136) + (243 * 0)/3136 + (243 * 0)/3136) + (243 * 0)/3136 + (243 * 0)/3136) + (243 * 0)/3136 + (243 * 0)/3136 + (243 * 0)/3136) + (243 * 0)/3136 + (243 * 0)/3136) + (243 * 0)/3136 + (243 * 0)/3136) + (243 * 0)/3136 + (243 * 0)/3136) + (243 * 0)/3136 + (243 * 0)/3136) + (243 * 0)/3136 + (243 * 0)/3136) + (243 * 0)/3136 + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/3136) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)/316) + (243 * 0)
                           0^4)/200704 + (45 * 0^3)/3136 + (1287 * 0^2)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/2508 + (27 * 0^4)/25088 + (27 * 0^4)/25088 + (27 * 0^4)/25088
                           0)/784 + 81/12544) + 2 * b * g * ((9 * 0^4)/12544 + (111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 * 111 *
                           0^3)/12544 + (1441 * 0^2)/50176 + (111 * 0)/12544 + 9/12544) +
                           2 * b * h * (0^4/4096 + (3 * 0^3)/1024 + (9 * 0^2)/1024) +
                           0 + c^2 * ((81 * 0^4)/38416 + (405 * 0^3)/19208 + (6075 *
                           0^2)/76832 + (10125 * 0)/76832 + 50625/614656) + 2 * c *
                           d * ((2025 * 0^4)/614656 + (15525 * 0^3)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (173025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/614656 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/61466 + (175025 * 0^4)/6146 + (175025 * 
                           0^2/2458624 + (25875 * 0)/307328 + 5625/153664) + 2 * c *
                            e * ((9 * 0^4)/2401 + (117 * 0^3)/4802 + (2061 * 0^2)/38416 +
                             (1755 * 0)/38416 + 2025/153664) + 2 * c * f * ((2025 * 0^4)/614656 +
                              (11745 * 0^3)/614656 + (84321 * 0^2)/2458624 + (11745 * 0)/614656 +
                           2025/614656) + 2 * c * g * ((81 * 0^4)/38416 + (27 * 0^3)/2401 +
                             (1287 * 0^2)/76832 + (45 * 0)/9604 + 225/614656) + 2 * c *
                           h * ((9 * 0^4)/12544 + (45 * 0^3)/12544 + (225 * 0^2)/50176) +
                           0 + d^2 * ((50625 * 0^4)/9834496 + (16875 * 0^3)/614656 +
                             (16875 * 0^2)/307328 + (1875 * 0)/38416 + 625/38416) + 2 *
                           d * e * ((225 * 0^4)/38416 + (1875 * 0^3)/76832 + (22825 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 + (1875 * 0^4)/38416 
                           0^2)/614656 + (1875 * 0)/76832 + 225/38416) + 2 * d * f *
                             ((50625 * 0^4)/9834496 + (43875 * 0^3)/2458624 + (51525 * 0^4)/9834496 + (43875 * 0^3)/2458624 + (51525 * 0^4)/9834496 + (43875 * 0^3)/2458624 + (51525 * 0^4)/9834496 + (43875 * 0^3)/2458624 + (51525 * 0^4)/9834496 + (43875 * 0^3)/2458624 + (51525 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (43875 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9834496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51525 * 0^4)/9844496 + (51
                                                        0^2)/2458624 + (2925 * 0)/307328 + 225/153664) + 2 *
                           d * g * ((2025 * 0^4)/614656 + (6075 * 0^3)/614656 + (21825 *
                           0^2)/2458624 + (675 * 0)/307328 + 25/153664) + 2 * d * h *
                             ((225 * 0^4)/200704 + (75 * 0^3)/25088 + (25 * 0^2)/12544) +
                            0 + e^2 * ((16 * 0^4)/2401 + (48 * 0^3)/2401 + (54 * 0^2)/2401 +
                             (27 * 0)/2401 + 81/38416) + 2 * e * f * ((225 * 0^4)/38416 +
                             (1035 * 0^3)/76832 + (6921 * 0^2)/614656 + (621 * 0)/153664 +
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81/153664) + 2 * e * g * ((9 * 0^4)/2401 + (33 * 0^3)/4802 +
               (157 * 0^2)/38416 + (33 * 0)/38416 + 9/153664) + 2 * e *
              h * (0^4/784 + (3 * 0^3)/1568 + (9 * 0^2)/12544) + 0 + f^2 *
               ((50625 * 0^4)/9834496 + (10125 * 0^3)/1229312 + (6075 *
                             0^2)/1229312 + (405 * 0)/307328 + 81/614656) + 2 * f *
              g * ((2025 * 0^4)/614656 + (2295 * 0^3)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/614656 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 * 0^4)/61466 + (3681 *
              0^2)/2458624 + (153 * 0)/614656 + 9/614656) + 2 * f * h *
               ((225 * 0^4)/200704 + (45 * 0^3)/50176 + (9 * 0^2)/50176) +
              0 + g^2 * ((81 * 0^4)/38416 + (27 * 0^3)/19208 + (27 * 0^2)/76832 +
               (3 * 0)/76832 + 1/614656) + 2 * g * h * (9/12544 * 0^4 + 1)
              3/12544 * 0^3 + 1/50176 * 0^2) + 0 + h^2 * (1/4096 * 0^4) +
              0 + i^2 * 0
R.8 \leftarrow (a^2 * 0 + 2 * a * b * (3/8 - 1/16 * 0^2 - 5/16 * 0) +
              2 * a * c * (45/98 - 9/49 * 0^2 - 27/98 * 0) + 2 * a * d *
               (75/196 - 225/784 * 0^2 - 75/784 * 0) + 2 * a * e * (12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 - 12/49 -
              16/49 * 0^2 + 4/49 * 0) + 2 * a * f * (45/392 - 225/784 *
              0) + 2 * a * h * (1/16 * 0 - 1/16 * 0^2) + 0 + b^2 * (27/64 - 1/16 * 0^2)
              1/512 * 0^4 - 17/512 * 0^3 - 45/256 * 0^2 - 27/128 * 0) +
              2 * b * c * (2295/6272 - 9/1568 * 0<sup>4</sup> - 423/6272 * 0<sup>3</sup> -
                             2763/12544 * 0^2 - 909/12544 * 0) + 2 * b * d * ((-(225 * 2763/12544 * 0))) + 2 * b * d * ((-(225 * 2763/12544 * 0))))
              0^4)/25088 - (1125 * 0^3)/12544 - (5375 * 0^2)/25088 + (625 * 0^4)/25088
              0)/12544 + 825/3136) + 2 * b * e * ((-0^4/98) - (73 * 0^3)/784 -
               (549 * 0^2)/3136 + (387 * 0)/3136 + 243/1568) + 2 * b * f *
               ((-(225 * 0^4)/25088) - (1935 * 0^3)/25088 - (747 * 0^2)/6272 +
                             (855 * 0)/6272 + 27/392) + 2 * b * g * ((-(9 * 0^4)/1568) -
               (297 * 0^3)/6272 - (775 * 0^2)/12544 + (1219 * 0)/12544 +
              111/6272) + 2 * b * h * ((-0^4/512) - 0^3/64 - (9 * 0^2)/512 +
               (9 * 0)/256) + 0 + c^2 * ((-(81 * 0^4)/4802) - (1053 * 0^3)/9604 -
               (3645 * 0^2)/19208 + (2025 * 0)/38416 + 10125/38416) + 2 *
              c * d * ((-(2025 * 0^4)/76832) - (38475 * 0^3)/307328 - (79875 * 0^3)/307328)
              0^2)/614656 + (69525 * 0)/614656 + 25875/153664) + 2 * c *
              e * ((-(72 * 0^4)/2401) - (279 * 0^3)/2401 - (657 * 0^2)/9604 +
               (2367 * 0)/19208 + 1755/19208) + 2 * c * f * ((-(2025 * 0^4)/76832) -
               (27135 * 0^3)/307328 - (13851 * 0^2)/614656 + (60831 * 0)/614656 +
              11745/307328) + 2 * c * g * ((-(81 * 0^4)/4802) - (243 * (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 * 0^4)/4802)) + (-(81 *
              0^3)/4802 + (9 * 0^2)/19208 + (1107 * 0)/19208 + 45/4802) +
              2 * c * h * ((-(9 * 0^4)/1568) - (99 * 0^3)/6272 + (45 * 0^4)/1568)
                            0^2)/12544 + (225 * 0)/12544) + 0 + d^2 * ((-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/12544) + (-(50625 * 0))/125
              0^4)/1229312 - (151875 * 0^3)/1229312 - (16875 * 0^2)/307328 +
               (9375 * 0)/76832 + 1875/19208) + 2 * d * e * ((-(225 * 0^4)/4802) -
               (3825 * 0^3)/38416 - (325 * 0^2)/153664 + (15325 * 0)/153664 +
              1875/38416) + 2 * d * f * ((-(50625 * 0^4)/1229312) - (10125 *
              0^3)/153664 + (28575 * 0^2)/1229312 + (39825 * 0)/614656 +
              2925/153664) + 2 * d * g * ((-(2025 * 0^4)/76832) - (10125 *
              0^3)/307328 + (14625 * 0^2)/614656 + (19125 * 0)/614656 +
              675/153664) + 2 * d * h * ((-(225 * 0^4)/25088) - (225 *
              0^3/25088 + (125 * 0^2)/12544 + (25 * 0)/3136) + 0 + e^2 *
               ((-(128 * 0^4)/2401) - (160 * 0^3)/2401 + (72 * 0^2)/2401 +
                             (162 * 0)/2401 + 54/2401) + 2 * e * f * ((-(225 * 0^4)/4802) -
               (1305 * 0^3)/38416 + (5499 * 0^2)/153664 + (5679 * 0)/153664 +
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621/76832) + 2 * e * g * ((-(72 * 0^4)/2401) - (27 * 0^3)/2401 +
                          (239 * 0^2)/9604 + (281 * 0)/19208 + 33/19208) + 2 * e *
                         h * ((-0^4/98) - 0^3/784 + (27 * 0^2)/3136 + (9 * 0)/3136) +
                         0 + f^2 * ((-(50625 * 0^4)/1229312) - (10125 * 0^3)/1229312 +
                          (18225 * 0^2)/614656 + (5265 * 0)/307328 + 405/153664) +
                          2 * f * g * ((-(2025 * 0^4)/76832) + (1215 * 0^3)/307328 +
                                                    (10089 * 0^2)/614656 + (3375 * 0)/614656 + 153/307328) +
                          2 * f * h * ((-(225 * 0^4)/25088) + (45 * 0^3)/12544 + (117 * (117 * 118)) + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 0^4)/12544 + (118 * 
                                                  0^2)/25088 + (9 * 0)/12544) + 0 + g^2 * ((-(81 * 0^4)/4802) +
                          (81 * 0^3)/9604 + (135 * 0^2)/19208 + (51 * 0)/38416 + 3/38416) +
                          2 * g * h * (-9/1568 * 0^4 + 27/6272 * 0^3 + 17/12544 * 0^2 +
                                                  1/12544 * 0) + 0 + h^2 * (-1/512 * 0^4 + 1/512 * 0^3) +
                         0 + i^2 * 0
R.7 \leftarrow (a^2 * 0 + 2 * a * b * (1/16 + 3/32 * 0^2 + 1/16 * 0) +
                          2 * a * c * (87/392 + 27/98 * 0^2 - 6/49 * 0) + 2 * a * d *
                          (285/784 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/784 * 0) + 2 * a * e * (41/98 + 675/1568 * 0^2 - 255/1568 * 0) + 2 * a * e * (41/98 + 675/1568 * 0) + 2 * a * e * (41/98 + 675/1568 * 0) + 2 * a * e * (41/98 + 675/1568 * 0) + 2 * a * e * (41/98 + 675/1568 * 0) + 2 * a * e * (41/98 + 675/1568 * 0) + 2 * a * e * e * (41/98 + 675/1568 * 0) + 2 * a * e * e * (41/98 + 675/1568 * 0) + 2 * a * e * e * (41/98 + 675/1568 * 0) + 2 * a * e * e * (41/98 + 675/1568 * 0) + 2 * a * e * e * (41/98 + 675/1568 * 0) + 2 * a * e * e * (41/98 + 675/1568 * 0) + 2 * e * e * (41/98 + 675/1568 * 0) + 2 * e * e * (41/98 + 675/1568 * 0) + 2 * e * e * (41/98 + 675/1568 * 0) + 2 * e * e * (41/98 + 675/1568 * 0) + 2 * e * e * e * (41/98 + 675/1568 * 0) + 2 * e * e * e * e * (41/98 + 675/1568 * 0) + 2 * e * e 
                         24/49 * 0^2 - 20/49 * 0) + 2 * a * f * (285/784 + 675/1568 *
                         6/49 * 0) + 2 * a * h * (1/16 + 3/32 * 0^2 + 1/16 * 0) +
                         0 + b^2 * (27/128 + 7/1024 * 0^4 + 39/512 * 0^3 + 93/512 *
                         0^2 - 9/64 * 0) + 2 * b * c * (3951/12544 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/48 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 + 9/448 * 0^4 +
                         933/6272 * 0^3 + 2109/12544 * 0^2 - 3033/12544 * 0) + 2 *
                         b * d * ((225 * 0^4)/7168 + (1215 * 0^3)/6272 + (1425 * 0^2)/12544 -
                          (785 * 0)/3136 + 4465/12544) + 2 * b * e * (0^4/28 + (39 * 0)^4/28)
                         0^3/196 + (93 * 0^2)/1568 - (585 * 0)/3136 + 1035/3136) +
                         2 * b * f * ((225 * 0^4)/7168 + (4125 * 0^3)/25088 + (687 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)/7168 + (4125 * 0^4)
                                                   0^2)/25088 - (513 * 0)/6272 + 1557/6272) + 2 * b * g *
                          ((9 * 0^4)/448 + (639 * 0^3)/6272 + (261 * 0^2)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/12544 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 + (271 * 0^4)/1254 
                                                 0)/12544 + 1711/12544) + 2 * b * h * ((7 * 0^4)/1024 +
                          (9 * 0^3)/256 + (3 * 0^2)/128 + (9 * 0)/128 + 9/256) + 0 +
                          c^2 * ((81 * 0^4)/1372 + (297 * 0^3)/1372 + (81 * 0^2)/2744 -
                                                    (1215 * 0)/5488 + 7425/21952) + 2 * c * d * ((2025 * 
                         0^4)/21952 + (9855 * 0^3)/43904 - (1035 * 0^2)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 0^4)/12544 - (11625 * 
                          0)/87808 + 27075/87808) + 2 * c * e * ((36 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 + (66 * 0^4)/343 +
                         0^3)/343 - (93 * 0^2)/686 - (81 * 0)/2744 + 333/1372) + 2 *
                          c * f * ((2025 * 0^4)/21952 + (6075 * 0^3)/43904 - (1539 * 0^4)/43904)
                         0^2)/12544 + (4293 * 0)/87808 + 14013/87808) + 2 * c * g *
                          ((81 * 0^4)/1372 + (27 * 0^3)/343 - (171 * 0^2)/2744 + (111 * 0^2)/2744)
                                                 0)/1372 + 1713/21952) + 2 * c * h * ((9 * 0^4)/448 +
                          (177 * 0^3)/6272 + (3 * 0^2)/1792 + (765 * 0)/12544 + 225/12544) +
                         0 + d^2 * ((50625 * 0^4)/351232 + (30375 * 0^3)/175616 -
                          (30375 * 0^2)/175616 - (375 * 0)/21952 + 375/1568) + 2 *
                         d * e * ((225 * 0^4)/1372 + (135 * 0^3)/1372 - (1965 * 0^2)/10976 +
                          (205 * 0)/3136 + 3595/21952) + 2 * d * f * ((50625 * 0^4)/351232 +
                          (3375 * 0^3)/87808 - (5625 * 0^2)/43904 + (4395 * 0)/43904 +
                         1185/12544) + 2 * d * g * ((2025 * 0^4)/21952 + (405 * 0^3)/43904 -
                          (675 * 0^2)/12544 + (7695 * 0)/87808 + 3555/87808) + 2 *
                         d * h * ((225 * 0^4)/7168 + (135 * 0^3)/25088 + (15 * 0^2)/3584 +
                          (275 * 0)/6272 + 25/3136) + 0 + e^2 * ((64 * 0^4)/343 - (48 * 0^4)/343)
                         0^2)/343 + (36 * 0)/343 + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * f * ((225 * 6) + 135/1372) + 2 * e * 
                          0^4)/1372 - (75 * 0^3)/1372 - (789 * 0^2)/10976 + (45 * 0^2)/448 +
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1089/21952) + 2 * e * g * ((36 * 0^4)/343 - (18 * 0^3)/343 -
          (9 * 0^2)/686 + (185 * 0)/2744 + 25/1372) + 2 * e * h * (0^4/28 - 185)/2744 + 25/1372)
         (3 * 0^3)/196 + (3 * 0^2)/224 + (81 * 0)/3136 + 9/3136) +
         0 + f^2 * ((50625 * 0^4)/351232 - (16875 * 0^3)/175616 -
         (2025 * 0^2)/175616 + (405 * 0)/5488 + 135/6272) + 2 * f *
         g * ((2025 * 0^4)/21952 - (3375 * 0^3)/43904 + (261 * 0^2)/12544 +
         (3453 * 0)/87808 + 573/87808) + 2 * f * h * ((225 * 0^4)/7168 -
         (75 * 0^3)/3136 + (33 * 0^2)/1792 + (9 * 0)/784 + 9/12544) +
         0 + g^2 * ((81 * 0^4)/1372 - (81 * 0^3)/1372 + (81 * 0^2)/2744 +
         (87 * 0)/5488 + 33/21952) + 2 * g * h * (1/12544 + 9/448 *
         0^4 - 117/6272 * 0^3 + 27/1792 * 0^2 + 37/12544 * 0) + 0 +
         h^2 * (7/1024 * 0^4 - 3/512 * 0^3 + 3/512 * 0^2) + 0 + i^2 *
         0)
R.6 \leftarrow (a^2 * 0 + 2 * a * b * (1/16 * 0 - 1/16 * 0^2) + 2 * a *
         225/784 * 0^2 + 135/784 * 0) + 2 * a * e * (12/49 - 16/49 * )
         0^2 + 4/49 * 0) + 2 * a * f * (75/196 - 225/784 * 0^2 - 75/784 * 0^3 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 * 0^4 - 75/784 *
         0) + 2 * a * g * (45/98 - 9/49 * 0^2 - 27/98 * 0) + 2 * a *
         h * (3/8 - 1/16 * 0^2 - 5/16 * 0) + 0 + b^2 * (3/64 - 7/512 * 0)
         0^4 - 45/512 * 0^3 - 3/128 * 0^2 + 5/64 * 0) + 2 * b * c *
         (405/3136 - 9/224 * 0^4 - 999/6272 * 0^3 + 807/12544 * 0^2 +
                  75/12544 * 0) + 2 * b * d * ((-(225 * 0^4)/3584) - (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) + (2505 * 0^4)/3584) 
         0^3)/12544 + (3235 * 0^2)/25088 - (1145 * 0)/12544 + 705/3136) +
         2 * b * e * ((-0^4/14) - (159 * 0^3)/784 + (417 * 0^2)/3136 -
                  (529 * 0)/3136 + 243/784) + 2 * b * f * ((-(225 * 0^4)/3584) -
         (4275 * 0^3)/25088 + (921 * 0^2)/12544 - (39 * 0)/196 + 1125/3136) +
         2 * b * g * ((-(9 * 0^4)/224) - (705 * 0^3)/6272 - (229 * 0^4)/224)
                  0^2)/12544 - (2165 * 0)/12544 + 1077/3136) + 2 * b *
         h * ((-(7 * 0^4)/512) - (3 * 0^3)/64 - (39 * 0^2)/512 - (25 * 0^4)/512)
         0)/256 + 15/64) + 0 + c^2 * ((-(81 * 0^4)/686) - (243 * 0^3)/1372 +
         (81 * 0^2)/392 - (729 * 0)/5488 + 1215/5488) + 2 * c * d *
         ((-(2025 * 0^4)/10976) - (5805 * 0^3)/43904 + (21465 * 0^2)/87808 -
                  (2715 * 0)/12544 + 12675/43904) + 2 * c * e * ((-(72 * 
         0^4)/343 - (27 * 0^3)/343 + (267 * 0^2)/1372 - (615 * 0)/2744 +
         873/2744) + 2 * c * f * ((-(2025 * 0^4)/10976) - (2025 *
         0^3)/43904 + (7857 * 0^2)/87808 - (2025 * 0)/12544 + 3321/10976) +
         2 * c * g * ((-(81 * 0^4)/686) - (27 * 0^3)/686 - (9 * 0^2)/392 -
                  (165 * 0)/2744 + 165/686) + 2 * c * h * ((-(9 * 0^4)/224) -
         (243 * 0^3)/6272 - (993 * 0^2)/12544 + (39 * 0)/1792 + 855/6272) +
         0 + d^2 * ((-(50625 * 0^4)/175616) + (3375 * 0^3)/175616 +
         (16875 * 0^2)/87808 - (10125 * 0)/43904 + 3375/10976) + 2 *
         d * e * ((-(225 * 0^4)/686) + (15 * 0^3)/112 + (1655 * 0^2)/21952 -
         (3665 * 0)/21952 + 3135/10976) + 2 * d * f * ((-(50625 * 
         0^4)/175616) + (3375 * 0^3)/21952 - (5625 * 0^2)/175616 -
         (5655 * 0)/87808 + 2535/10976) + 2 * d * g * ((-(2025 * 0^4)/10976) +
         (3645 * 0^3)/43904 - (7515 * 0^2)/87808 + (405 * 0)/12544 +
         6795/43904) + 2 * d * h * ((-(225 * 0^4)/3584) - (285 * 0^3)/25088 -
         0^4)/343 + (96 * 0^3)/343 - (24 * 0^2)/343 - (22 * 0)/343 +
         78/343) + 2 * e * f * ((-(225 * 0^4)/686) + (225 * 0^3)/784 -
         (3273 * 0^2)/21952 + (717 * 0)/21952 + 54/343) + 2 * e *
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g * ((-(72 * 0^4)/343) + (57 * 0^3)/343 - (181 * 0^2)/1372 +
               (239 * 0)/2744 + 243/2744) + 2 * e * h * ((-0^4/14) + (9 *
              0^3)/784 - (159 * 0^2)/3136 + (5 * 0)/64 + 51/1568) + 0 +
              f^2 * ((-(50625 * 0^4)/175616) + (50625 * 0^3)/175616 - (2025 * 0^4)/175616) + (50625 * 0^4)/175616 + (50625 * 0^4)/175616) + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 0^4)/175616 + (50625 * 
                             0^2)/10976 + (2025 * 0)/21952 + 2025/21952) + 2 * f *
              g * ((-(2025 * 0^4)/10976) + (7425 * 0^3)/43904 - (11043 * 0^3)/43904)
              0^2/87808 + (177 * 0)/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * h * ((-(225 * 0))/1792 + 465/10976) + 2 * f * ((-(225 * 0))/1792 + 465/10976) + 2 * f * ((-(225 * 0))/1792 + 465/10976) + 2 * f * ((-(225 * 0))/1792 + 465/10976) + 2 * f * ((-(225 * 0))/1792 + 465/10976) + 2 * f * ((-(225 * 0))/1792 + 2 * f * ((-(225 * 0))
              0^4/3584 + (225 * 0^3)/12544 - (633 * 0^2)/25088 + (15 * 0^4)/3584
              0)/256 + 9/784) + 0 + g^2 * ((-(81 * 0^4)/686) + (135 * 0^3)/1372 -
               (27 * 0^2)/392 + (405 * 0)/5488 + 81/5488) + 2 * g * h *
               (15/6272 - 9/224 * 0^4 + 51/6272 * 0^3 - 13/12544 * 0^2 +
                            55/1792 * 0) + 0 + h^2 * (-7/512 * 0^4 - 3/512 * 0^3 +
              3/256 * 0^2 + 1/128 * 0) + 0 + i^2 * 0
R.5 \leftarrow (a^2 * 0 + 2 * a * b * (1/64 * 0^2) + 2 * a * c * (1/784 + 1/84)
              9/196 * 0^2 + 3/196 * 0) + 2 * a * d * (9/784 + 225/3136 * 0)
              0^2 + 45/784 * 0) + 2 * a * e * (9/196 + 4/49 * 0^2 + 6/49 * 0^3)
              0) + 2 * a * f * (25/196 + 225/3136 * 0^2 + 75/392 * 0) +
              2 * a * g * (225/784 + 9/196 * 0^2 + 45/196 * 0) + 2 * a *
              h * (9/16 + 1/64 * 0^2 + 3/16 * 0) + 2 * a * i * 1 + b^2 *
               (1/256 + 35/2048 * 0^4 + 25/512 * 0^3 - 27/512 * 0^2 + 7/128 *
                            0) + 2 * b * c * (327/12544 + 45/896 * 0^4 + 225/3136 *
              0^3 - 2533/25088 * 0^2 + 1149/12544 * 0) + 2 * b * d * ((1125 * ))
              0^4)/14336 + (2025 * 0^3)/25088 - (2623 * 0^2)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^4)/25088 + (561 * 0^
              0)/6272 + 453/6272) + 2 * b * e * ((5 * 0^4)/56 + (65 * 0^3)/784 -
               (369 * 0^2)/6272 + (149 * 0)/3136 + 451/3136) + 2 * b * f *
               ((1125 * 0^4)/14336 + (2025 * 0^3)/25088 + (527 * 0^2)/25088 -
                             (45 * 0)/3136 + 2985/12544) + 2 * b * g * ((45 * 0^4)/896 +
               (225 * 0^3)/3136 + (2507 * 0^2)/25088 - (699 * 0)/12544 +
              4359/12544) + 2 * b * h * ((35 * 0^4)/2048 + (25 * 0^3)/512 +
               (63 * 0^2)/512 - 0/64 + 59/128) + 2 * b * i * (9/16 + 1/64 *
              0^2 + 3/16 * 0) + c^2 * ((405 * 0^4)/2744 - (513 * 0^2)/5488 +
               (27 * 0)/343 + 3429/43904) + 2 * c * d * ((10125 * 0^4)/43904 -
               (2025 * 0^3)/21952 - (2691 * 0^2)/175616 + (675 * 0)/87808 +
              13045/87808) + 2 * c * e * ((90 * 0^4)/343 - (45 * 0^3)/343 +
               (197 * 0^2)/2744 - (117 * 0)/1372 + 2481/10976) + 2 * c *
              f * ((10125 * 0^4)/43904 - (2025 * 0^3)/21952 + (22509 *
              0^2)/175616 - (13941 * 0)/87808 + 26037/87808) + 2 * c *
              g * ((405 * 0^4)/2744 + (747 * 0^2)/5488 - (57 * 0)/343 +
              15077/43904) + 2 * c * h * ((45 * 0^4)/896 + (225 * 0^3)/3136 +
               (2507 * 0^2)/25088 - (699 * 0)/12544 + 4359/12544) + 2 *
              0^4/702464 - (50625 * 0^3)/175616 + (24975 * 0^2)/175616 -
               (675 * 0)/6272 + 19575/87808) + 2 * d * e * ((1125 * 0^4)/2744 -
               (2025 * 0^3)/5488 + (10649 * 0^2)/43904 - (4317 * 0)/21952 +
              879/3136) + 2 * d * f * ((253125 * 0^4)/702464 - (50625 *
              0^3)/175616 + (40725 * 0^2)/175616 - (345 * 0)/1568 + 13529/43904) +
              2 * d * g * ((10125 * 0<sup>4</sup>)/43904 - (2025 * 0<sup>3</sup>)/21952 + (22509 *
                            0^2)/175616 - (13941 * 0)/87808 + 26037/87808) + 2 *
              d * h * ((1125 * 0^4)/14336 + (2025 * 0^3)/25088 + (527 *
              225/3136 * 0^2 + 75/392 * 0) + e^2 * ((160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0^4)/343 - (160 * 0
```

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0^3)/343 + (108 * 0^2)/343 - (82 * 0)/343 + 821/2744) + 2 *
                    e * f * ((1125 * 0^4)/2744 - (2025 * 0^3)/5488 + (10649 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2748 + (10649 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/2744 - (2025 * 0^4)/
                   0^2/43904 - (4317 * 0)/21952 + 879/3136) + 2 * e * g * ((90 * 0)/21952 + 879/3136) + 2 * e * g * (190 * 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/21952 + 190/2195
                   0^4)/343 - (45 * 0^3)/343 + (197 * 0^2)/2744 - (117 * 0)/1372 +
                   2481/10976) + 2 * e * h * ((5 * 0^4)/56 + (65 * 0^3)/784 -
                     (369 * 0^2)/6272 + (149 * 0)/3136 + 451/3136) + 2 * e * i *
                     (9/196 + 4/49 * 0^2 + 6/49 * 0) + f^2 * ((253125 * 0^4)/702464 -
                     (50625 * 0^3)/175616 + (24975 * 0^2)/175616 - (675 * 0)/6272 +
                    19575/87808) + 2 * f * g * ((10125 * 0^4)/43904 - (2025 *
                   0^3)/21952 - (2691 * 0^2)/175616 + (675 * 0)/87808 + 13045/87808) +
                    2 * f * h * ((1125 * 0^4)/14336 + (2025 * 0^3)/25088 - (2623 *
                                        0^2)/25088 + (561 * 0)/6272 + 453/6272) + 2 * f * i *
                     (9/784 + 225/3136 * 0^2 + 45/784 * 0) + g^2 * ((405 * 0^4)/2744 -
                     (513 * 0^2)/5488 + (27 * 0)/343 + 3429/43904) + 2 * g * h *
                     (327/12544 + 45/896 * 0^4 + 225/3136 * 0^3 - 2533/25088 *
                                       0^2 + 1149/12544 * 0) + 2 * g * i * (1/784 + 9/196 * )
                   0^2 + 3/196 * 0) + h^2 * (1/256 + 35/2048 * 0^4 + 25/512 *
                   0^3 - 27/512 * 0^2 + 7/128 * 0) + 2 * h * i * (1/64 * 0^2) +
                    i^2 * 0
R.4 \leftarrow (a^2 * 0 + 2 * a * b * 0 + 2 * a * c * 0 + 2 * a * d *
                   0 + 2 * a * e * 0 + 2 * a * f * 0 + 2 * a * g * 0 + 2 * a *
                   h * 0 + 2 * a * i * 0 + b^2 * (-7/512 * 0^4 - 3/512 * 0^3 +
                   3/256 * 0^2 + 1/128 * 0) + 2 * b * c * (15/6272 - 9/224 * 0)
                   0^4 + 51/6272 * 0^3 - 13/12544 * 0^2 + 55/1792 * 0) + 2 *
                   b * d * ((-(225 * 0^4)/3584) + (225 * 0^3)/12544 - (633 * (634) + (634)/12544) + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/12544 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/1254 + (634)/125
                   0^2)/25088 + (15 * 0)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/25088 + (15 * 0)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/25088 + (15 * 0)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/25088 + (15 * 0)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * e * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * b * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * ((-0^4/14) + 0^2)/256 + 9/784) + 2 * ((-0^4/14) + 0^2)/256 + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) + 9/784) +
                     (9 * 0^3)/784 - (159 * 0^2)/3136 + (5 * 0)/64 + 51/1568) +
                   2 * b * f * ((-(225 * 0^4)/3584) - (285 * 0^3)/25088 - (55 * (285 * 0^4)/3584))
                                       0^2/784 + (65 * 0)/896 + 225/3136) + 2 * b * g * ((-(9 * 0)^2/784) + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/896 + (65 * 0)/8
                   0^4)/224 - (243 * 0^3)/6272 - (993 * 0^2)/12544 + (39 * 0^4)/224
                   0)/1792 + 855/6272) + 2 * b * h * ((-(7 * 0^4)/512) - (3 * 0^4)/512))
                   0^3)/64 - (39 * 0^2)/512 - (25 * 0)/256 + 15/64) + 2 * b *
                    i * (3/8 - 1/16 * 0^2 - 5/16 * 0) + c^2 * ((-(81 * 0^4)/686) +
                     (135 * 0^3)/1372 - (27 * 0^2)/392 + (405 * 0)/5488 + 81/5488) +
                   2 * c * d * ((-(2025 * 0^4)/10976) + (7425 * 0^3)/43904 -
                                         (11043 * 0^2)/87808 + (177 * 0)/1792 + 465/10976) + 2 *
                    c * e * ((-(72 * 0^4)/343) + (57 * 0^3)/343 - (181 * 0^2)/1372 +
                     (239 * 0)/2744 + 243/2744) + 2 * c * f * ((-(2025 * 0^4)/10976) +
                     (3645 * 0^3)/43904 - (7515 * 0^2)/87808 + (405 * 0)/12544 +
                   6795/43904) + 2 * c * g * ((-(81 * 0^4)/686) - (27 * 0^3)/686 -
                     (9 * 0^2)/392 - (165 * 0)/2744 + 165/686) + 2 * c * h * ((-(9 * 0)/2744 + 165/686)) + 2 * c * h * ((-(9 * 0)/2744 + 165/686)))
                   0^4)/224 - (705 * 0^3)/6272 - (229 * 0^2)/12544 - (2165 * 0^4)/224
                   0)/12544 + 1077/3136) + 2 * c * i * (45/98 - 9/49 * 0^2 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3 - 9/49 * 0^3
                    27/98 * 0) + d^2 * ((-(50625 * 0^4)/175616) + (50625 * 0^3)/175616 -
                     (2025 * 0^2)/10976 + (2025 * 0)/21952 + 2025/21952) + 2 *
                   d * e * ((-(225 * 0^4)/686) + (225 * 0^3)/784 - (3273 * 0^2)/21952 +
                     (717 * 0)/21952 + 54/343) + 2 * d * f * ((-(50625 * 0^4)/175616) +
                     (3375 * 0^3)/21952 - (5625 * 0^2)/175616 - (5655 * 0)/87808 +
                    2535/10976) + 2 * d * g * ((-(2025 * 0^4)/10976) - (2025 *
                   0^3/43904 + (7857 * 0^2)/87808 - (2025 * 0)/12544 + 3321/10976) +
                    2 * d * h * ((-(225 * 0^4)/3584) - (4275 * 0^3)/25088 + (921 *
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0^2)/12544 - (39 * 0)/196 + 1125/3136) + 2 * d * i *
                     (75/196 - 225/784 * 0^2 - 75/784 * 0) + e^2 * ((-(128 * 0^4)/343) +
                     (96 * 0^3)/343 - (24 * 0^2)/343 - (22 * 0)/343 + 78/343) +
                    2 * e * f * ((-(225 * 0^4)/686) + (15 * 0^3)/112 + (1655 * (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (165) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (165) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) + (1655) 
                                       0^2)/21952 - (3665 * 0)/21952 + 3135/10976) + 2 * e *
                    g * ((-(72 * 0^4)/343) - (27 * 0^3)/343 + (267 * 0^2)/1372 -
                     (615 * 0)/2744 + 873/2744) + 2 * e * h * ((-0^4/14) - (159 *
                   0^3/784 + (417 * 0^2)/3136 - (529 * 0)/3136 + 243/784) +
                    2 * e * i * (12/49 - 16/49 * 0^2 + 4/49 * 0) + f^2 * ((-(50625 * 16/49 * 0) + 16/49 * 0))
                   0^4)/175616) + (3375 * 0^3)/175616 + (16875 * 0^2)/87808 -
                     (10125 * 0)/43904 + 3375/10976) + 2 * f * g * ((-(2025 * )
                   0^4)/10976 - (5805 * 0^3)/43904 + (21465 * 0^2)/87808 -
                     (2715 * 0)/12544 + 12675/43904) + 2 * f * h * ((-(225 * 0^4)/3584) -
                     (2505 * 0^3)/12544 + (3235 * 0^2)/25088 - (1145 * 0)/12544 +
                   705/3136) + 2 * f * i * (45/392 - 225/784 * 0^2 + 135/784 *
                   0) + g^2 * ((-(81 * 0^4)/686) - (243 * 0^3)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/1372 + (81 * 0^4)/13
                   0^2/392 - (729 * 0)/5488 + 1215/5488) + 2 * g * h * (405/3136 - 9)
                   9/224 * 0^4 - 999/6272 * 0^3 + 807/12544 * 0^2 + 75/12544 *
                   0) + 2 * g * i * (3/98 - 9/49 * 0^2 + 15/98 * 0) + h^2 *
                     (3/64 - 7/512 * 0^4 - 45/512 * 0^3 - 3/128 * 0^2 + 5/64 *
                                       0) + 2 * h * i * (1/16 * 0 - 1/16 * 0^2) + i^2 * 0
R.3 \leftarrow (a^2 * 0 + 2 * a * b * 0 + 2 * a * c * 0 + 2 * a * d *
                    0 + 2 * a * e * 0 + 2 * a * f * 0 + 2 * a * g * 0 + 2 * a *
                   h * 0 + 2 * a * i * 0 + b^2 * (7/1024 * 0^4 - 3/512 * 0^3 +
                   3/512 * 0^2 + 2 * b * c * (1/12544 + 9/448 * 0^4 - 117/6272 *
                   0^3 + 27/1792 * 0^2 + 37/12544 * 0) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * b * d * ((225 * 25)) + 2 * ((225 * 25)) + 2 * ((225 * 25)) + 2 * ((225 * 25)) + 2 * ((225 * 25)) + 2 * ((225 * 25)) + 2 * ((225 * 25)) + 2 * ((225 * 25)) + 2 * ((225 * 25)) + 2 * ((225 * 25)) + 2 * ((225 * 25)) + 2 * ((2
                   0^4)/7168 - (75 * 0^3)/3136 + (33 * 0^2)/1792 + (9 * 0)/784 +
                   9/12544) + 2 * b * e * (0^4/28 - (3 * 0^3)/196 + (3 * 0^2)/224 +
                     (81 * 0)/3136 + 9/3136) + 2 * b * f * ((225 * 0^4)/7168 +
                     (135 * 0^3)/25088 + (15 * 0^2)/3584 + (275 * 0)/6272 + 25/3136) +
                    2 * b * g * ((9 * 0^4)/448 + (177 * 0^3)/6272 + (3 * 0^2)/1792 +
                                        (765 * 0)/12544 + 225/12544) + 2 * b * h * ((7 * 0^4)/1024 +
                     (9 * 0^3)/256 + (3 * 0^2)/128 + (9 * 0)/128 + 9/256) + 2 *
                   b * i * (1/16 + 3/32 * 0^2 + 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 * ((81 * 0^4)/1372 - 1/16 * 0) + c^2 *
                     (81 * 0^3)/1372 + (81 * 0^2)/2744 + (87 * 0)/5488 + 33/21952) +
                    2 * c * d * ((2025 * 0^4)/21952 - (3375 * 0^3)/43904 + (261 * (2025 * 0^4)/21952)
                                       0^2)/12544 + (3453 * 0)/87808 + 573/87808) + 2 * c *
                    e * ((36 * 0^4)/343 - (18 * 0^3)/343 - (9 * 0^2)/686 + (185 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 - (18 * 0^4)/343 -
                   0)/2744 + 25/1372) + 2 * c * f * ((2025 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^4)/21952 + (405 * 0^
                   0^3)/43904 - (675 * 0^2)/12544 + (7695 * 0)/87808 + 3555/87808) +
                   2 * c * g * ((81 * 0^4)/1372 + (27 * 0^3)/343 - (171 * 0^2)/2744 +
                                        (111 * 0)/1372 + 1713/21952) + 2 * c * h * ((9 * 0^4)/448 +
                     (639 * 0^3)/6272 + (261 * 0^2)/12544 + (271 * 0)/12544 +
                    1711/12544) + 2 * c * i * (87/392 + 27/98 * 0^2 - 6/49 *
                    0) + d^2 * ((50625 * 0^4)/351232 - (16875 * 0^3)/175616 -
                     (2025 * 0^2)/175616 + (405 * 0)/5488 + 135/6272) + 2 * d *
                    e * ((225 * 0^4)/1372 - (75 * 0^3)/1372 - (789 * 0^2)/10976 +
                     (45 * 0)/448 + 1089/21952) + 2 * d * f * ((50625 * 0^4)/351232 +
                     (3375 * 0^3)/87808 - (5625 * 0^2)/43904 + (4395 * 0)/43904 +
                    1185/12544) + 2 * d * g * ((2025 * 0^4)/21952 + (6075 * 0^3)/43904 -
                     (1539 * 0^2)/12544 + (4293 * 0)/87808 + 14013/87808) + 2 *
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d * h * ((225 * 0^4)/7168 + (4125 * 0^3)/25088 + (687 * 0^2)/25088 -
        (513 * 0)/6272 + 1557/6272) + 2 * d * i * (285/784 + 675/1568 *
        0^2 - 255/784 * 0) + e^2 * ((64 * 0^4)/343 - (48 * 0^2)/343 +
        (36 * 0)/343 + 135/1372) + 2 * e * f * ((225 * 0^4)/1372 +
        (135 * 0^3)/1372 - (1965 * 0^2)/10976 + (205 * 0)/3136 +
        3595/21952) + 2 * e * g * ((36 * 0^4)/343 + (66 * 0^3)/343 -
        (93 * 0^2)/686 - (81 * 0)/2744 + 333/1372) + 2 * e * h *
        (0^4/28 + (39 * 0^3)/196 + (93 * 0^2)/1568 - (585 * 0)/3136 +
                1035/3136) + 2 * e * i * (41/98 + 24/49 * 0^2 - 20/49 *
        0) + f^2 * ((50625 * 0^4)/351232 + (30375 * 0^3)/175616 -
        (30375 * 0^2)/175616 - (375 * 0)/21952 + 375/1568) + 2 *
        f * g * ((2025 * 0^4)/21952 + (9855 * 0^3)/43904 - (1035 * 0^4)/43904)
        0^2/12544 - (11625 * 0)/87808 + 27075/87808) + 2 * f * h *
        ((225 * 0^4)/7168 + (1215 * 0^3)/6272 + (1425 * 0^2)/12544 -
                675/1568 * 0^2 - 255/784 * 0) + g^2 * ((81 * 0^4)/1372 +
        (297 * 0^3)/1372 + (81 * 0^2)/2744 - (1215 * 0)/5488 + 7425/21952) +
        2 * g * h * (3951/12544 + 9/448 * 0^4 + 933/6272 * 0^3 +
                27/98 * 0^2 - 6/49 * 0) + h^2 * (27/128 + 7/1024 * 0^4 + 6/1024)
        39/512 * 0^3 + 93/512 * 0^2 - 9/64 * 0) + 2 * h * i * (1/16 + 9/10)
        3/32 * 0^2 + 1/16 * 0) + i^2 * 0
R.2 \leftarrow (a^2 * 0 + 2 * a * b * 0 + 2 * a * c * 0 + 2 * a * d *
        0 + 2 * a * e * 0 + 2 * a * f * 0 + 2 * a * g * 0 + 2 * a *
        h * 0 + 2 * a * i * 0 + b^2 * (-1/512 * 0^4 + 1/512 * 0^3) +
        2 * b * c * (-9/1568 * 0^4 + 27/6272 * 0^3 + 17/12544 * 0^2 +
                1/12544 * 0) + 2 * b * d * ((-(225 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088) + (45 * 0^4)/25088
        0^3)/12544 + (117 * 0^2)/25088 + (9 * 0)/12544) + 2 * b *
        e * ((-0^4/98) - 0^3/784 + (27 * 0^2)/3136 + (9 * 0)/3136) +
        2 * b * f * ((-(225 * 0^4)/25088) - (225 * 0^3)/25088 + (125 * 0^4)/25088)
               0^2)/12544 + (25 * 0)/3136) + 2 * b * g * ((-(9 * 0^4)/1568) -
        (99 * 0^3)/6272 + (45 * 0^2)/12544 + (225 * 0)/12544) + 2 *
        b * h * ((-0^4/512) - 0^3/64 - (9 * 0^2)/512 + (9 * 0)/256) +
        2 * b * i * (1/16 * 0 - 1/16 * 0^2) + c^2 * ((-(81 * 0^4)/4802) +
        (81 * 0^3)/9604 + (135 * 0^2)/19208 + (51 * 0)/38416 + 3/38416) +
        2 * c * d * ((-(2025 * 0^4)/76832) + (1215 * 0^3)/307328 +
                (10089 * 0^2)/614656 + (3375 * 0)/614656 + 153/307328) +
        2 * c * e * ((-(72 * 0^4)/2401) - (27 * 0^3)/2401 + (239 * 0^4)/2401)
                0^2)/9604 + (281 * 0)/19208 + 33/19208) + 2 * c * f *
        ((-(2025 * 0^4)/76832) - (10125 * 0^3)/307328 + (14625 *
                0^2)/614656 + (19125 * 0)/614656 + 675/153664) + 2 *
        c * g * ((-(81 * 0^4)/4802) - (243 * 0^3)/4802 + (9 * 0^2)/19208 +
        (1107 * 0)/19208 + 45/4802) + 2 * c * h * ((-(9 * 0^4)/1568) -
        (297 * 0^3)/6272 - (775 * 0^2)/12544 + (1219 * 0)/12544 +
        111/6272) + 2 * c * i * (3/98 - 9/49 * 0^2 + 15/98 * 0) +
        d^2 * ((-(50625 * 0^4)/1229312) - (10125 * 0^3)/1229312 +
                (18225 * 0^2)/614656 + (5265 * 0)/307328 + 405/153664) +
        2 * d * e * ((-(225 * 0^4)/4802) - (1305 * 0^3)/38416 + (5499 * (1305 * 0^4)/4802))
                0^2)/153664 + (5679 * 0)/153664 + 621/76832) + 2 * d *
        f * ((-(50625 * 0^4)/1229312) - (10125 * 0^3)/153664 + (28575 * 0^4)/1229312) - (10125 * 0^3)/153664 + (28575 * 0^4)/1229312) - (10125 * 0^3)/153664 + (28575 * 0^4)/1229312) - (10125 * 0^3)/153664 + (28575 * 0^4)/1229312) - (10125 * 0^3)/153664 + (28575 * 0^4)/1229312) - (10125 * 0^3)/153664 + (28575 * 0^4)/1229312) - (10125 * 0^3)/153664 + (28575 * 0^4)/1229312) - (10125 * 0^3)/153664 + (28575 * 0^4)/1229312) - (10125 * 0^3)/153664 + (28575 * 0^4)/1229312) - (10125 * 0^3)/153664 + (28575 * 0^4)/1229312) - (10125 * 0^3)/153664 + (28575 * 0^4)/1229312) - (10125 * 0^3)/153664 + (28575 * 0^4)/1229312) - (10125 * 0^3)/153664 + (28575 * 0^4)/1229312) - (10125 * 0^3)/153664 + (28575 * 0^4)/1229312) - (10125 * 0^3)/153664 + (28575 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312) - (10125 * 0^4)/1229312
        0^2)/1229312 + (39825 * 0)/614656 + 2925/153664) + 2 * d *
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g * ((-(2025 * 0^4)/76832) - (27135 * 0^3)/307328 - (13851 * 0^4)/76832)
              0^2)/614656 + (60831 * 0)/614656 + 11745/307328) + 2 * d *
              h * ((-(225 * 0^4)/25088) - (1935 * 0^3)/25088 - (747 * 0^2)/6272 +
               (855 * 0)/6272 + 27/392) + 2 * d * i * (45/392 - 225/784 *
              0^2 + 135/784 * 0) + e^2 * ((-(128 * 0^4)/2401) - (160 * 160) + 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 160 * 
              0^3)/2401 + (72 * 0^2)/2401 + (162 * 0)/2401 + 54/2401) +
              2 * e * f * ((-(225 * 0^4)/4802) - (3825 * 0^3)/38416 - (325 * 0^4)/4802)
                            0^2)/153664 + (15325 * 0)/153664 + 1875/38416) + 2 *
              e * g * ((-(72 * 0^4)/2401) - (279 * 0^3)/2401 - (657 * 0^2)/9604 +
               (2367 * 0)/19208 + 1755/19208) + 2 * e * h * ((-0^4/98) -
               (73 * 0^3)/784 - (549 * 0^2)/3136 + (387 * 0)/3136 + 243/1568) +
              2 * e * i * (12/49 - 16/49 * 0^2 + 4/49 * 0) + f^2 * ((-(50625 * 16.49 * 0) + 16.49 * 0) + 16.49 * 0) + 16.49 * 0)
              0^4)/1229312) - (151875 * 0^3)/1229312 - (16875 * 0^2)/307328 +
               (9375 * 0)/76832 + 1875/19208) + 2 * f * g * ((-(2025 * 0^4)/76832) -
               (38475 * 0^3)/307328 - (79875 * 0^2)/614656 + (69525 * 0)/614656 +
              25875/153664) + 2 * f * h * ((-(225 * 0^4)/25088) - (1125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 * 125 
              0^3)/12544 - (5375 * 0^2)/25088 + (625 * 0)/12544 + 825/3136) +
              2 * f * i * (75/196 - 225/784 * 0^2 - 75/784 * 0) + g^2 *
               ((-(81 * 0^4)/4802) - (1053 * 0^3)/9604 - (3645 * 0^2)/19208 +
                             (2025 * 0)/38416 + 10125/38416) + 2 * g * h * (2295/6272 -
              9/1568 * 0^4 - 423/6272 * 0^3 - 2763/12544 * 0^2 - 909/12544 *
              0) + 2 * g * i * (45/98 - 9/49 * 0^2 - 27/98 * 0) + h^2 *
               (27/64 - 1/512 * 0^4 - 17/512 * 0^3 - 45/256 * 0^2 - 27/128 *
                            0) + 2 * h * i * (3/8 - 1/16 * 0^2 - 5/16 * 0) + i^2 *
              0)
R.1 <- (a^2 * 0 + 2 * a * b * 0 + 2 * a * c * 0 + 2 * a * d *
              0 + 2 * a * e * 0 + 2 * a * f * 0 + 2 * a * g * 0 + 2 * a *
              h * 0 + 2 * a * i * 0 + b^2 * (1/4096 * 0^4) + 2 * b * c *
               (9/12544 * 0^4 + 3/12544 * 0^3 + 1/50176 * 0^2) + 2 * b *
              d * ((225 * 0^4)/200704 + (45 * 0^3)/50176 + (9 * 0^2)/50176) +
              2 * b * e * (0^4/784 + (3 * 0^3)/1568 + (9 * 0^2)/12544) +
              2 * b * f * ((225 * 0^4)/200704 + (75 * 0^3)/25088 + (25 *
                            0^2/12544) + 2 * b * g * ((9 * 0^4/12544 + (45 * 0^3/12544 +
               (225 * 0^2)/50176) + 2 * b * h * (0^4/4096 + (3 * 0^3)/1024 +
               (9 * 0^2)/1024) + 2 * b * i * (1/64 * 0^2) + c^2 * ((81 * 0^2)) + c^2 
              0^4)/38416 + (27 * 0^3)/19208 + (27 * 0^2)/76832 + (3 * 0)/76832 +
              1/614656) + 2 * c * d * ((2025 * 0<sup>4</sup>)/614656 + (2295 * 0<sup>3</sup>)/614656 +
               (3681 * 0^2)/2458624 + (153 * 0)/614656 + 9/614656) + 2 *
              c * e * ((9 * 0^4)/2401 + (33 * 0^3)/4802 + (157 * 0^2)/38416 +
               (33 * 0)/38416 + 9/153664) + 2 * c * f * ((2025 * 0^4)/614656 +
               (6075 * 0^3)/614656 + (21825 * 0^2)/2458624 + (675 * 0)/307328 +
              25/153664) + 2 * c * g * ((81 * 0^4)/38416 + (27 * 0^3)/2401 +
               (1287 * 0^2)/76832 + (45 * 0)/9604 + 225/614656) + 2 * c *
              h * ((9 * 0^4)/12544 + (111 * 0^3)/12544 + (1441 * 0^2)/50176 +
               (111 * 0)/12544 + 9/12544) + 2 * c * i * (1/784 + 9/196 *
              0^2 + 3/196 * 0) + d^2 * ((50625 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9834496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/984496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/9844496 + (10125 * 0^4)/984496 + (10125 * 0^4)/984496 + (10125 * 0^4)/984496 + (10125
              0^3/1229312 + (6075 * 0^2)/1229312 + (405 * 0)/307328 +
              81/614656) + 2 * d * e * ((225 * 0<sup>4</sup>)/38416 + (1035 * 0<sup>3</sup>)/76832 +
               (6921 * 0^2)/614656 + (621 * 0)/153664 + 81/153664) + 2 *
              d * f * ((50625 * 0^4)/9834496 + (43875 * 0^3)/2458624 +
               (51525 * 0^2)/2458624 + (2925 * 0)/307328 + 225/153664) +
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2 * d * g * ((2025 * 0^4)/614656 + (11745 * 0^3)/614656 +
                                        (84321 * 0^2)/2458624 + (11745 * 0)/614656 + 2025/614656) +
                   2 * d * h * ((225 * 0^4)/200704 + (45 * 0^3)/3136 + (1287 *
                                       225/3136 * 0^2 + 45/784 * 0) + e^2 * ((16 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^4)/2401 + (48 * 0^
                   0^3)/2401 + (54 * 0^2)/2401 + (27 * 0)/2401 + 81/38416) +
                   2 * e * f * ((225 * 0^4)/38416 + (1875 * 0^3)/76832 + (22825 * 0^4)/38416 + (1875 * 0^3)/76832 + (22825 * 0^4)/38416 + (1875 * 0^3)/76832 + (22825 * 0^4)/38416 + (1875 * 0^3)/76832 + (22825 * 0^4)/38416 + (1875 * 0^3)/76832 + (22825 * 0^4)/38416 + (1875 * 0^3)/76832 + (22825 * 0^4)/38416 + (1875 * 0^3)/76832 + (22825 * 0^4)/38416 + (1875 * 0^3)/76832 + (22825 * 0^4)/38416 + (1875 * 0^3)/76832 + (22825 * 0^4)/38416 + (1875 * 0^3)/76832 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416 + (22825 * 0^4)/38416
                                       0^2)/614656 + (1875 * 0)/76832 + 225/38416) + 2 * e *
                   g * ((9 * 0^4)/2401 + (117 * 0^3)/4802 + (2061 * 0^2)/38416 +
                    (1755 * 0)/38416 + 2025/153664) + 2 * e * h * (0^4/784 + 0)
                    (27 * 0^3)/1568 + (873 * 0^2)/12544 + (243 * 0)/3136 + 81/3136) +
                   2 * e * i * (9/196 + 4/49 * 0^2 + 6/49 * 0) + f^2 * ((50625 * 6/49 * 0) + f^3 + 6/49 * 0))
                   0^4)/9834496 + (16875 * 0^3)/614656 + (16875 * 0^2)/307328 +
                    (1875 * 0)/38416 + 625/38416) + 2 * f * g * ((2025 * 0^4)/614656 +
                    (15525 * 0^3)/614656 + (173025 * 0^2)/2458624 + (25875 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/614656 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/61466 + (173025 * 0^3)/6166 + (173025 * 0^3)/61666 + (173025 * 0^3)/6166 + (173025 * 0^3)/6166 + (173025 * 0^3)/6166 + (173025 * 0^3)/6166 +
                   0)/307328 + 5625/153664) + 2 * f * h * ((225 * 0^4)/200704 +
                    (825 * 0^3)/50176 + (3925 * 0^2)/50176 + (825 * 0)/6272 +
                   225/3136) + 2 * f * i * (25/196 + 225/3136 * 0^2 + 75/392 *
                   0) + g^2 * ((81 * 0^4)/38416 + (405 * 0^3)/19208 + (6075 *
                   0^2)/76832 + (10125 * 0)/76832 + 50625/614656) + 2 * g *
                   h * (2025/12544 + 9/12544 * 0^4 + 153/12544 * 0^3 + 3681/50176 *
                   0^2 + 2295/12544 * 0) + 2 * g * i * (225/784 + 9/196 * 0^2 + 9)
                   45/196 * 0) + h^2 * (81/256 + 1/4096 * 0^4 + 3/512 * 0^3 +
                   27/512 * 0^2 + 27/128 * 0) + 2 * h * i * (9/16 + 1/64 * 0^2 + 1/64 * 0^3)
                   3/16 * 0) + i^2 * 1
exp \leftarrow c(R.9, R.8, R.7, R.6, R.5, R.4, R.3, R.2, R.1)
```

This constructs the test statistic. Notice that it uses prob1, a perturbation of the true genotype frequencies. This makes no sense.

I can verify that prob1 is the same as above

prob1

[1] 0.04948 0.09193 0.13758 0.16100 0.19942 0.14998 0.10952 0.06350 0.03759

References

Wang, Jing, Xuemin Lv, Li Feng, Ang Dong, Dan Liang, and Rongling Wu. 2021. "A Tracing Model for the Evolutionary Equilibrium of Octoploids." Frontiers in Genetics 12. https://doi.org/10.3389/fgene.2021.794907.