```
In[ ]:= last5 = {(-15 + x)^3 (-11 + x)^15 (5 + x)^42, (-13 + x)^9 (-11 + x)^6 (-9 + x)^3 (5 + x)^42,
    (-17 + x) (-13 + x)^3 (-11 + x)^14 (5 + x)^42, (-15 + x) (-13 + x)^6 (-11 + x)^9
     (-9 + x)^2 (5 + x)^42, (-13 + x)^6 (-11 + x)^10 (5 + x)^42 (109 - 22 x + x^2)};

In[ ]:= interlacingpolylast5 = Array[intpolylast5, 5];
Coeffmatlast5 = Array[Coefflast5, 5];
gveclast5 = Array[glast5, 5];

i =;
last5[[i]]
interlacingpolylast5[[i]] =;
Coeffmatlast5[[i]] =
  CoefficientList[Factor[interlacingpolylast5[[i]] / mu[last5[[i]]], x];
Coeffmatlast5[[i]] // MatrixForm
gveclast5[[i]] = CoefficientList[D[last5[[i]], x] / mu[last5[[i]]] // Factor, x]
Array[c,].Transpose[Coeffmatlast5[[i]]]
Array[c,].gveclast5[[i]]
i
Flatten[Array[c,] /. FindInstance[ < 0 &&, Array[c,], Integers]]

In[ ]:= i = 1;
last5[[i]]
interlacingpolylast5[[i]] = {(-15 + x)^2 (-11 + x)^14 (5 + x)^41 (94 - 21 x + x^2)};
Coeffmatlast5[[i]] =
  CoefficientList[Factor[interlacingpolylast5[[i]] / mu[last5[[i]]], x];
Out[ ]= (-15 + x)^3 (-11 + x)^15 (5 + x)^42

In[ ]:= Coeffmatlast5[[i]] // MatrixForm
Out[ ]//MatrixForm=
( 94  -21  1 )

In[ ]:= gveclast5[[i]] = CoefficientList[D[last5[[i]], x] / mu[last5[[i]]] // Factor, x]
Out[ ]= {5640, -1260, 60}

In[ ]:= Array[c, 3].Transpose[Coeffmatlast5[[i]]]
Out[ ]= {94 c[1] - 21 c[2] + c[3]}
```

```
In[•]:= Array[c, 3].gveclast5[[i]]
Out[•]= 5640 c[1] - 1260 c[2] + 60 c[3]

In[•]:= i
Flatten[Array[c, 3] /. FindInstance[5640 c[1] - 1260 c[2] + 60 c[3] < 0 &&
    94 c[1] - 21 c[2] + c[3] ≥ 0, Array[c, 3], Integers]]
Out[•]= 1

Out[•]= {c[1], c[2], c[3]}
```

```
In[•]:= i = 2;
last5[[i]]
interlacingpolylast5[[i]] = {(-13 + x)^8 (-11 + x)^7 (-9 + x)^2 (-6 + x) (5 + x)^41,
   (-13 + x)^8 (-11 + x)^5 (-9 + x)^3 (5 + x)^41 (82 - 19 x + x^2)};
Coeffmatlast5[[i]] =
  CoefficientList[Factor[interlacingpolylast5[[i]] / mu[last5[[i]]], x];
Out[•]= (-13 + x)^9 (-11 + x)^6 (-9 + x)^3 (5 + x)^42

In[•]:= Coeffmatlast5[[i]] // MatrixForm
Out[•]//MatrixForm=
(-726  253  -28  1
 -738  253  -28  1)

In[•]:= gveclast5[[i]] = CoefficientList[D[last5[[i]], x] / mu[last5[[i]]] // Factor, x]
Out[•]= {-43 944, 15 180, -1680, 60}

In[•]:= Solve[Array[n, 2].Coeffmatlast5[[2]] == {-43 944, 15 180, -1680, 60}, Array[n, 2]]
Out[•]= {{n[1] → 28, n[2] → 32}}

In[•]:= Array[c, 4].Transpose[Coeffmatlast5[[i]]]
Out[•]= {-726 c[1] + 253 c[2] - 28 c[3] + c[4], -738 c[1] + 253 c[2] - 28 c[3] + c[4]}

In[•]:= Array[c, 4].gveclast5[[i]]
Out[•]= -43 944 c[1] + 15 180 c[2] - 1680 c[3] + 60 c[4]

In[•]:= i
Flatten[
 Array[c, 4] /. FindInstance[-43 944 c[1] + 15 180 c[2] - 1680 c[3] + 60 c[4] < 0 &&
    -726 c[1] + 253 c[2] - 28 c[3] + c[4] ≥ 0 &&
    -738 c[1] + 253 c[2] - 28 c[3] + c[4] ≥ 0, Array[c, 4], Integers]]
Out[•]= 2

Out[•]= {c[1], c[2], c[3], c[4]}
```

```
(x + 5) ^ 14 (x - 11) ^ 6
```

In[ ]:=
```
32 * 31
```
Out[ ]=
```
992
```

In[ ]:=
```
14 (-5) ^ 2 + 6 × 11 ^ 2
```
Out[ ]=
```
1076
```

In[ ]:=
```
i = 3;
last5[[i]]
interlacingpolylast5[[i]] = {(-13 + x)^3 (-11 + x)^13 (5 + x)^41 (106 - 23 x + x^2),
    (-13 + x)^2 (-11 + x)^13 (5 + x)^41 (-1382 + 405 x - 36 x^2 + x^3),
    (-17 + x) (-13 + x)^2 (-11 + x)^13 (5 + x)^41 (82 - 19 x + x^2)};
Coeffmatlast5[[i]] =
  CoefficientList[Factor[interlacingpolylast5[[i]] / mu[last5[[i]]], x];
```
Out[ ]=
```
(-17 + x) (-13 + x)^3 (-11 + x)^14 (5 + x)^42
```

In[ ]:=
```
Coeffmatlast5[[i]] // MatrixForm
```
Out[ ]//MatrixForm=
$$\begin{pmatrix} -1378 & 405 & -36 & 1 \\ -1382 & 405 & -36 & 1 \\ -1394 & 405 & -36 & 1 \end{pmatrix}$$

In[ ]:=
```
gveclast5[[i]] = CoefficientList[D[last5[[i]], x] / mu[last5[[i]]] // Factor, x]
```
Out[ ]=
```
{-83 112, 24 300, -2160, 60}
```

In[ ]:=
```
Solve[Array[n, 3].Coeffmatlast5[[3]] == gveclast5[[3]] && n[1] ≥ 0 && n[2] ≥ 0 && n[3] ≥ 0,
  Array[n, 3], Integers] // Length
```
Out[ ]=
```
12
```

In[ ]:=
```
Array[c, 4].Transpose[Coeffmatlast5[[i]]]
```
Out[ ]=
```
{-1378 c[1] + 405 c[2] - 36 c[3] + c[4],
 -1382 c[1] + 405 c[2] - 36 c[3] + c[4], -1394 c[1] + 405 c[2] - 36 c[3] + c[4]}
```

In[ ]:=
```
Array[c, 4].gveclast5[[i]]
```
Out[ ]=
```
-83 112 c[1] + 24 300 c[2] - 2160 c[3] + 60 c[4]
```

In[ ]:=
```
i
Flatten[
 Array[c, 4] /. FindInstance[-83 112 c[1] + 24 300 c[2] - 2160 c[3] + 60 c[4] < 0 &&
    -1378 c[1] + 405 c[2] - 36 c[3] + c[4] ≥ 0 && -1382 c[1] + 405 c[2] - 36 c[3] + c[4] ≥
     0 && -1394 c[1] + 405 c[2] - 36 c[3] + c[4] ≥ 0, Array[c, 4], Integers]]
```

Out[ ]=
```
3
```

Out[ ]=
```
{c[1], c[2], c[3], c[4]}
```

In[ ]:=
```
feasibleinterlacingpolylist[
  (-13 + x)^2 (-11 + x)^13 (5 + x)^41 (-1382 + 405 x - 36 x^2 + x^3)] // Length
```

Out[ ]=
```
105
```

In[ ]:=
```
listinterlacingf2i3 = {(-13 + x) (8559 - 3878 x + 624 x^2 - 42 x^3 + x^4),
    (-13 + x) (-7 + x) (-1225 + 379 x - 35 x^2 + x^3),
    (-13 + x) (8591 - 3878 x + 624 x^2 - 42 x^3 + x^4), (-13 + x)
     (8423 - 3870 x + 624 x^2 - 42 x^3 + x^4), (-13 + x) (8439 - 3870 x + 624 x^2 - 42 x^3 + x^4),
    (-13 + x) (89 - 22 x + x^2) (95 - 20 x + x^2), (-13 + x) (8471 - 3870 x + 624 x^2 - 42 x^3 + x^4),
    (-13 + x) (123 - 24 x + x^2) (69 - 18 x + x^2), (-13 + x) (8503 - 3870 x + 624 x^2 - 42 x^3 + x^4),
    (-13 + x) (-7 + x) (-1217 + 379 x - 35 x^2 + x^3), (-13 + x)
     (8535 - 3870 x + 624 x^2 - 42 x^3 + x^4), (-13 + x) (8303 - 3862 x + 624 x^2 - 42 x^3 + x^4),
    (-13 + x) (8319 - 3862 x + 624 x^2 - 42 x^3 + x^4), (-13 + x) (-5 + x)
     (-1667 + 439 x - 37 x^2 + x^3), (-13 + x) (8351 - 3862 x + 624 x^2 - 42 x^3 + x^4),
    (-13 + x) (8367 - 3862 x + 624 x^2 - 42 x^3 + x^4), (-13 + x)
     (8383 - 3862 x + 624 x^2 - 42 x^3 + x^4), (-13 + x) (8399 - 3862 x + 624 x^2 - 42 x^3 + x^4),
    (-13 + x) (8415 - 3862 x + 624 x^2 - 42 x^3 + x^4), (-13 + x)
     (8431 - 3862 x + 624 x^2 - 42 x^3 + x^4), (-13 + x) (8167 - 3854 x + 624 x^2 - 42 x^3 + x^4),
    (-13 + x) (8183 - 3854 x + 624 x^2 - 42 x^3 + x^4), (-13 + x) (-9 + x)
     (-911 + 327 x - 33 x^2 + x^3), (-13 + x) (8215 - 3854 x + 624 x^2 - 42 x^3 + x^4),
    (-13 + x) (8231 - 3854 x + 624 x^2 - 42 x^3 + x^4), (-13 + x)
     (8247 - 3854 x + 624 x^2 - 42 x^3 + x^4), (-13 + x) (8263 - 3854 x + 624 x^2 - 42 x^3 + x^4),
    (-13 + x) (8279 - 3854 x + 624 x^2 - 42 x^3 + x^4), (-13 + x) (-5 + x)
     (-1659 + 439 x - 37 x^2 + x^3), (-13 + x) (8311 - 3854 x + 624 x^2 - 42 x^3 + x^4),
    (-13 + x) (8327 - 3854 x + 624 x^2 - 42 x^3 + x^4), (-13 + x) (-11 + x)
     (-733 + 283 x - 31 x^2 + x^3), (-13 + x) (8079 - 3846 x + 624 x^2 - 42 x^3 + x^4),
    (-13 + x) (8095 - 3846 x + 624 x^2 - 42 x^3 + x^4),
    (-13 + x) (8111 - 3846 x + 624 x^2 - 42 x^3 + x^4),
    (-13 + x) (-9 + x) (-903 + 327 x - 33 x^2 + x^3), (-13 + x)
     (8143 - 3846 x + 624 x^2 - 42 x^3 + x^4), (-13 + x) (8159 - 3846 x + 624 x^2 - 42 x^3 + x^4),
    (-13 + x) (8175 - 3846 x + 624 x^2 - 42 x^3 + x^4), (-13 + x)
     (8191 - 3846 x + 624 x^2 - 42 x^3 + x^4), (-13 + x) (8207 - 3846 x + 624 x^2 - 42 x^3 + x^4),
    (-13 + x) (8223 - 3846 x + 624 x^2 - 42 x^3 + x^4), (-13 + x) (-11 + x)
     (-725 + 283 x - 31 x^2 + x^3), (-13 + x) (7991 - 3838 x + 624 x^2 - 42 x^3 + x^4),
    (-13 + x) (157 - 26 x + x^2) (51 - 16 x + x^2), (-13 + x) (8023 - 3838 x + 624 x^2 - 42 x^3 + x^4),
```

$$(-13+x)\left(8039-3838x+624x^2-42x^3+x^4\right),$$
$$(-13+x)(-9+x)\left(-895+327x-33x^2+x^3\right),$$
$$(-13+x)\left(8071-3838x+624x^2-42x^3+x^4\right),(-13+x)$$
$$\left(8087-3838x+624x^2-42x^3+x^4\right),(-13+x)\left(8103-3838x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(8119-3838x+624x^2-42x^3+x^4\right),(-13+x)(-11+x)$$
$$\left(-717+283x-31x^2+x^3\right),(-13+x)\left(7903-3830x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(7919-3830x+624x^2-42x^3+x^4\right),(-13+x)$$
$$\left(7935-3830x+624x^2-42x^3+x^4\right),(-13+x)\left(7951-3830x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(7967-3830x+624x^2-42x^3+x^4\right),(-13+x)(-9+x)$$
$$\left(-887+327x-33x^2+x^3\right),(-13+x)\left(7999-3830x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(8015-3830x+624x^2-42x^3+x^4\right),(-13+x)(-11+x)$$
$$\left(-709+283x-31x^2+x^3\right),(-13+x)\left(7815-3822x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(191-28x+x^2\right)\left(41-14x+x^2\right),(-13+x)\left(7847-3822x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(7863-3822x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(7879-3822x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(7895-3822x+624x^2-42x^3+x^4\right),$$
$$(-13+x)(-9+x)\left(-879+327x-33x^2+x^3\right),(-13+x)(-11+x)$$
$$\left(-701+283x-31x^2+x^3\right),(-13+x)\left(7727-3814x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(7743-3814x+624x^2-42x^3+x^4\right),(-13+x)$$
$$\left(7759-3814x+624x^2-42x^3+x^4\right),(-13+x)\left(7775-3814x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(7791-3814x+624x^2-42x^3+x^4\right),(-13+x)$$
$$\left(7807-3814x+624x^2-42x^3+x^4\right),(-13+x)\left(7823-3814x+624x^2-42x^3+x^4\right),$$
$$(-13+x)(-11+x)^2\left(63-20x+x^2\right),(-13+x)\left(7639-3806x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(7655-3806x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(7671-3806x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(7687-3806x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(7703-3806x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(7719-3806x+624x^2-42x^3+x^4\right),$$
$$(-13+x)(-11+x)\left(-685+283x-31x^2+x^3\right),$$
$$(-13+x)\left(7551-3798x+624x^2-42x^3+x^4\right),(-13+x)\left(161-26x+x^2\right)\left(47-16x+x^2\right),$$
$$(-13+x)\left(7583-3798x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(7599-3798x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(7615-3798x+624x^2-42x^3+x^4\right),(-13+x)(-11+x)$$
$$\left(-677+283x-31x^2+x^3\right),(-13+x)\left(7463-3790x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(7479-3790x+624x^2-42x^3+x^4\right),(-13+x)$$
$$\left(7495-3790x+624x^2-42x^3+x^4\right),(-13+x)\left(7511-3790x+624x^2-42x^3+x^4\right),$$
$$(-13+x)(-11+x)\left(-669+283x-31x^2+x^3\right),(-13+x)$$
$$\left(7375-3782x+624x^2-42x^3+x^4\right),(-13+x)\left(7391-3782x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(7407-3782x+624x^2-42x^3+x^4\right),(-13+x)(-11+x)$$
$$\left(-661+283x-31x^2+x^3\right),(-13+x)\left(7287-3774x+624x^2-42x^3+x^4\right),$$
$$(-13+x)\left(7303-3774x+624x^2-42x^3+x^4\right),(-13+x)(-11+x)$$
$$\left(-653+283x-31x^2+x^3\right),(-13+x)\left(7199-3766x+624x^2-42x^3+x^4\right),$$

```
    (-15 + x) (-13 + x) (-11 + x) (43 - 16 x + x^2)};
Length[listinterlacingf2i3]
```

Out[ ]= 105

```
In[ ]:= listinterlacingf2i3coeffmat = CoefficientList[listinterlacingf2i3, x];
listinterlacingf2i3coeffmat // Dimensions
```

Out[ ]= {105, 6}

```
In[ ]:= CoefficientList[D[(-13 + x)^2 (-11 + x)^13 (5 + x)^41 (-1382 + 405 x - 36 x^2 + x^3), x] /
    mu[(-13 + x)^2 (-11 + x)^13 (5 + x)^41 (-1382 + 405 x - 36 x^2 + x^3)] // Factor, x]
```

Out[ ]= {-6 493 281, 3 465 775, -706 786, 69 030, -3245, 59}

```
In[ ]:= Array[c, 6].Transpose[listinterlacingf2i3coeffmat]
```

Out[ ]=
```
{-111 267 c[1] + 58 973 c[2] - 11 990 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -111 475 c[1] + 58 989 c[2] - 11 990 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -111 683 c[1] + 59 005 c[2] - 11 990 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -109 499 c[1] + 58 733 c[2] - 11 982 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -109 707 c[1] + 58 749 c[2] - 11 982 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -109 915 c[1] + 58 765 c[2] - 11 982 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -110 123 c[1] + 58 781 c[2] - 11 982 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -110 331 c[1] + 58 797 c[2] - 11 982 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -110 539 c[1] + 58 813 c[2] - 11 982 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -110 747 c[1] + 58 829 c[2] - 11 982 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -110 955 c[1] + 58 845 c[2] - 11 982 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -107 939 c[1] + 58 509 c[2] - 11 974 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -108 147 c[1] + 58 525 c[2] - 11 974 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -108 355 c[1] + 58 541 c[2] - 11 974 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -108 563 c[1] + 58 557 c[2] - 11 974 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -108 771 c[1] + 58 573 c[2] - 11 974 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -108 979 c[1] + 58 589 c[2] - 11 974 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -109 187 c[1] + 58 605 c[2] - 11 974 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -109 395 c[1] + 58 621 c[2] - 11 974 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -109 603 c[1] + 58 637 c[2] - 11 974 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -106 171 c[1] + 58 269 c[2] - 11 966 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -106 379 c[1] + 58 285 c[2] - 11 966 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -106 587 c[1] + 58 301 c[2] - 11 966 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -106 795 c[1] + 58 317 c[2] - 11 966 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -107 003 c[1] + 58 333 c[2] - 11 966 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -107 211 c[1] + 58 349 c[2] - 11 966 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -107 419 c[1] + 58 365 c[2] - 11 966 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -107 627 c[1] + 58 381 c[2] - 11 966 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -107 835 c[1] + 58 397 c[2] - 11 966 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -108 043 c[1] + 58 413 c[2] - 11 966 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -108 251 c[1] + 58 429 c[2] - 11 966 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -104 819 c[1] + 58 061 c[2] - 11 958 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -105 027 c[1] + 58 077 c[2] - 11 958 c[3] + 1170 c[4] - 55 c[5] + c[6],
 -105 235 c[1] + 58 093 c[2] - 11 958 c[3] + 1170 c[4] - 55 c[5] + c[6],
```

$$
\begin{aligned}
&-105\,443\,c[1]+58\,109\,c[2]-11\,958\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-105\,651\,c[1]+58\,125\,c[2]-11\,958\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-105\,859\,c[1]+58\,141\,c[2]-11\,958\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-106\,067\,c[1]+58\,157\,c[2]-11\,958\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-106\,275\,c[1]+58\,173\,c[2]-11\,958\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-106\,483\,c[1]+58\,189\,c[2]-11\,958\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-106\,691\,c[1]+58\,205\,c[2]-11\,958\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-106\,899\,c[1]+58\,221\,c[2]-11\,958\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-103\,675\,c[1]+57\,869\,c[2]-11\,950\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-103\,883\,c[1]+57\,885\,c[2]-11\,950\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-104\,091\,c[1]+57\,901\,c[2]-11\,950\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-104\,299\,c[1]+57\,917\,c[2]-11\,950\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-104\,507\,c[1]+57\,933\,c[2]-11\,950\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-104\,715\,c[1]+57\,949\,c[2]-11\,950\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-104\,923\,c[1]+57\,965\,c[2]-11\,950\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-105\,131\,c[1]+57\,981\,c[2]-11\,950\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-105\,339\,c[1]+57\,997\,c[2]-11\,950\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-105\,547\,c[1]+58\,013\,c[2]-11\,950\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-102\,531\,c[1]+57\,677\,c[2]-11\,942\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-102\,739\,c[1]+57\,693\,c[2]-11\,942\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-102\,947\,c[1]+57\,709\,c[2]-11\,942\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-103\,155\,c[1]+57\,725\,c[2]-11\,942\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-103\,363\,c[1]+57\,741\,c[2]-11\,942\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-103\,571\,c[1]+57\,757\,c[2]-11\,942\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-103\,779\,c[1]+57\,773\,c[2]-11\,942\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-103\,987\,c[1]+57\,789\,c[2]-11\,942\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-104\,195\,c[1]+57\,805\,c[2]-11\,942\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-101\,387\,c[1]+57\,485\,c[2]-11\,934\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-101\,595\,c[1]+57\,501\,c[2]-11\,934\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-101\,803\,c[1]+57\,517\,c[2]-11\,934\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-102\,011\,c[1]+57\,533\,c[2]-11\,934\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-102\,219\,c[1]+57\,549\,c[2]-11\,934\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-102\,427\,c[1]+57\,565\,c[2]-11\,934\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-102\,635\,c[1]+57\,581\,c[2]-11\,934\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-102\,843\,c[1]+57\,597\,c[2]-11\,934\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-100\,243\,c[1]+57\,293\,c[2]-11\,926\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-100\,451\,c[1]+57\,309\,c[2]-11\,926\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-100\,659\,c[1]+57\,325\,c[2]-11\,926\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-100\,867\,c[1]+57\,341\,c[2]-11\,926\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-101\,075\,c[1]+57\,357\,c[2]-11\,926\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-101\,283\,c[1]+57\,373\,c[2]-11\,926\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-101\,491\,c[1]+57\,389\,c[2]-11\,926\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-101\,699\,c[1]+57\,405\,c[2]-11\,926\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-99\,099\,c[1]+57\,101\,c[2]-11\,918\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-99\,307\,c[1]+57\,117\,c[2]-11\,918\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-99\,515\,c[1]+57\,133\,c[2]-11\,918\,c[3]+1170\,c[4]-55\,c[5]+c[6],\\
&-99\,723\,c[1]+57\,149\,c[2]-11\,918\,c[3]+1170\,c[4]-55\,c[5]+c[6],
\end{aligned}
$$

```
-99931 c[1] + 57165 c[2] - 11918 c[3] + 1170 c[4] - 55 c[5] + c[6],
-100139 c[1] + 57181 c[2] - 11918 c[3] + 1170 c[4] - 55 c[5] + c[6],
-100347 c[1] + 57197 c[2] - 11918 c[3] + 1170 c[4] - 55 c[5] + c[6],
-97955 c[1] + 56909 c[2] - 11910 c[3] + 1170 c[4] - 55 c[5] + c[6],
-98163 c[1] + 56925 c[2] - 11910 c[3] + 1170 c[4] - 55 c[5] + c[6],
-98371 c[1] + 56941 c[2] - 11910 c[3] + 1170 c[4] - 55 c[5] + c[6],
-98579 c[1] + 56957 c[2] - 11910 c[3] + 1170 c[4] - 55 c[5] + c[6],
-98787 c[1] + 56973 c[2] - 11910 c[3] + 1170 c[4] - 55 c[5] + c[6],
-98995 c[1] + 56989 c[2] - 11910 c[3] + 1170 c[4] - 55 c[5] + c[6],
-96811 c[1] + 56717 c[2] - 11902 c[3] + 1170 c[4] - 55 c[5] + c[6],
-97019 c[1] + 56733 c[2] - 11902 c[3] + 1170 c[4] - 55 c[5] + c[6],
-97227 c[1] + 56749 c[2] - 11902 c[3] + 1170 c[4] - 55 c[5] + c[6],
-97435 c[1] + 56765 c[2] - 11902 c[3] + 1170 c[4] - 55 c[5] + c[6],
-97643 c[1] + 56781 c[2] - 11902 c[3] + 1170 c[4] - 55 c[5] + c[6],
-95667 c[1] + 56525 c[2] - 11894 c[3] + 1170 c[4] - 55 c[5] + c[6],
-95875 c[1] + 56541 c[2] - 11894 c[3] + 1170 c[4] - 55 c[5] + c[6],
-96083 c[1] + 56557 c[2] - 11894 c[3] + 1170 c[4] - 55 c[5] + c[6],
-96291 c[1] + 56573 c[2] - 11894 c[3] + 1170 c[4] - 55 c[5] + c[6],
-94523 c[1] + 56333 c[2] - 11886 c[3] + 1170 c[4] - 55 c[5] + c[6],
-94731 c[1] + 56349 c[2] - 11886 c[3] + 1170 c[4] - 55 c[5] + c[6],
-94939 c[1] + 56365 c[2] - 11886 c[3] + 1170 c[4] - 55 c[5] + c[6],
-93379 c[1] + 56141 c[2] - 11878 c[3] + 1170 c[4] - 55 c[5] + c[6],
-93587 c[1] + 56157 c[2] - 11878 c[3] + 1170 c[4] - 55 c[5] + c[6],
-92235 c[1] + 55949 c[2] - 11870 c[3] + 1170 c[4] - 55 c[5] + c[6]}
```

In[ ]:=
```
Array[c, 6].{-6493281, 3465775, -706786, 69030, -3245, 59}
```

Out[ ]=
```
-6493281 c[1] + 3465775 c[2] - 706786 c[3] + 69030 c[4] - 3245 c[5] + 59 c[6]
```

In[ ]:=
```
FindInstance[
 -6493281 c[1] + 3465775 c[2] - 706786 c[3] + 69030 c[4] - 3245 c[5] + 59 c[6] < 0 &&
  -111267 c[1] + 58973 c[2] - 11990 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
  -111475 c[1] + 58989 c[2] - 11990 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
  -111683 c[1] + 59005 c[2] - 11990 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
  -109499 c[1] + 58733 c[2] - 11982 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
  -109707 c[1] + 58749 c[2] - 11982 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
  -109915 c[1] + 58765 c[2] - 11982 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
  -110123 c[1] + 58781 c[2] - 11982 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
  -110331 c[1] + 58797 c[2] - 11982 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
  -110539 c[1] + 58813 c[2] - 11982 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
  -110747 c[1] + 58829 c[2] - 11982 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
  -110955 c[1] + 58845 c[2] - 11982 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
  -107939 c[1] + 58509 c[2] - 11974 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
  -108147 c[1] + 58525 c[2] - 11974 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
  -108355 c[1] + 58541 c[2] - 11974 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
  -108563 c[1] + 58557 c[2] - 11974 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
  -108771 c[1] + 58573 c[2] - 11974 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
  -108979 c[1] + 58589 c[2] - 11974 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
```

```
-109187 c[1] + 58605 c[2] - 11974 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-109395 c[1] + 58621 c[2] - 11974 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-109603 c[1] + 58637 c[2] - 11974 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-106171 c[1] + 58269 c[2] - 11966 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-106379 c[1] + 58285 c[2] - 11966 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-106587 c[1] + 58301 c[2] - 11966 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-106795 c[1] + 58317 c[2] - 11966 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-107003 c[1] + 58333 c[2] - 11966 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-107211 c[1] + 58349 c[2] - 11966 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-107419 c[1] + 58365 c[2] - 11966 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-107627 c[1] + 58381 c[2] - 11966 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-107835 c[1] + 58397 c[2] - 11966 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-108043 c[1] + 58413 c[2] - 11966 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-108251 c[1] + 58429 c[2] - 11966 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-104819 c[1] + 58061 c[2] - 11958 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-105027 c[1] + 58077 c[2] - 11958 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-105235 c[1] + 58093 c[2] - 11958 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-105443 c[1] + 58109 c[2] - 11958 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-105651 c[1] + 58125 c[2] - 11958 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-105859 c[1] + 58141 c[2] - 11958 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-106067 c[1] + 58157 c[2] - 11958 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-106275 c[1] + 58173 c[2] - 11958 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-106483 c[1] + 58189 c[2] - 11958 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-106691 c[1] + 58205 c[2] - 11958 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-106899 c[1] + 58221 c[2] - 11958 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-103675 c[1] + 57869 c[2] - 11950 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-103883 c[1] + 57885 c[2] - 11950 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-104091 c[1] + 57901 c[2] - 11950 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-104299 c[1] + 57917 c[2] - 11950 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-104507 c[1] + 57933 c[2] - 11950 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-104715 c[1] + 57949 c[2] - 11950 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-104923 c[1] + 57965 c[2] - 11950 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-105131 c[1] + 57981 c[2] - 11950 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-105339 c[1] + 57997 c[2] - 11950 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-105547 c[1] + 58013 c[2] - 11950 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-102531 c[1] + 57677 c[2] - 11942 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-102739 c[1] + 57693 c[2] - 11942 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-102947 c[1] + 57709 c[2] - 11942 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-103155 c[1] + 57725 c[2] - 11942 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-103363 c[1] + 57741 c[2] - 11942 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-103571 c[1] + 57757 c[2] - 11942 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-103779 c[1] + 57773 c[2] - 11942 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-103987 c[1] + 57789 c[2] - 11942 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-104195 c[1] + 57805 c[2] - 11942 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-101387 c[1] + 57485 c[2] - 11934 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-101595 c[1] + 57501 c[2] - 11934 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-101803 c[1] + 57517 c[2] - 11934 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
```

```
-102 011 c[1] + 57 533 c[2] - 11 934 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-102 219 c[1] + 57 549 c[2] - 11 934 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-102 427 c[1] + 57 565 c[2] - 11 934 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-102 635 c[1] + 57 581 c[2] - 11 934 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-102 843 c[1] + 57 597 c[2] - 11 934 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-100 243 c[1] + 57 293 c[2] - 11 926 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-100 451 c[1] + 57 309 c[2] - 11 926 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-100 659 c[1] + 57 325 c[2] - 11 926 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-100 867 c[1] + 57 341 c[2] - 11 926 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-101 075 c[1] + 57 357 c[2] - 11 926 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-101 283 c[1] + 57 373 c[2] - 11 926 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-101 491 c[1] + 57 389 c[2] - 11 926 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-101 699 c[1] + 57 405 c[2] - 11 926 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-99 099 c[1] + 57 101 c[2] - 11 918 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-99 307 c[1] + 57 117 c[2] - 11 918 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-99 515 c[1] + 57 133 c[2] - 11 918 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-99 723 c[1] + 57 149 c[2] - 11 918 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-99 931 c[1] + 57 165 c[2] - 11 918 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-100 139 c[1] + 57 181 c[2] - 11 918 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-100 347 c[1] + 57 197 c[2] - 11 918 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-97 955 c[1] + 56 909 c[2] - 11 910 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-98 163 c[1] + 56 925 c[2] - 11 910 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-98 371 c[1] + 56 941 c[2] - 11 910 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-98 579 c[1] + 56 957 c[2] - 11 910 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-98 787 c[1] + 56 973 c[2] - 11 910 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-98 995 c[1] + 56 989 c[2] - 11 910 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-96 811 c[1] + 56 717 c[2] - 11 902 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-97 019 c[1] + 56 733 c[2] - 11 902 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-97 227 c[1] + 56 749 c[2] - 11 902 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-97 435 c[1] + 56 765 c[2] - 11 902 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-97 643 c[1] + 56 781 c[2] - 11 902 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-95 667 c[1] + 56 525 c[2] - 11 894 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-95 875 c[1] + 56 541 c[2] - 11 894 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-96 083 c[1] + 56 557 c[2] - 11 894 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-96 291 c[1] + 56 573 c[2] - 11 894 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-94 523 c[1] + 56 333 c[2] - 11 886 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-94 731 c[1] + 56 349 c[2] - 11 886 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-94 939 c[1] + 56 365 c[2] - 11 886 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-93 379 c[1] + 56 141 c[2] - 11 878 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-93 587 c[1] + 56 157 c[2] - 11 878 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0 &&
-92 235 c[1] + 55 949 c[2] - 11 870 c[3] + 1170 c[4] - 55 c[5] + c[6] ≥ 0,
Array[c, 6], Integers]
```

Out[•]= {{c[1] → 37 285, c[2] → 484 710,
c[3] → 6 301 221, c[4] → 0, c[5] → 0, c[6] → 51 115 513 410}}

```
In[ ]:= Flatten[Array[c, 6] /. {c[1] → 37 285, c[2] → 484 710,
          c[3] → 6 301 221, c[4] → 0, c[5] → 0, c[6] → 51 115 513 410}]
Out[ ]= {37 285, 484 710, 6 301 221, 0, 0, 51 115 513 410}

In[ ]:= GCD[37 285, 484 710, 6 301 221, 0, 0, 51 115 513 410]
Out[ ]= 1

In[ ]:= {37 285, 484 710, 6 301 221, 0, 0, 51 115 513 410}.
         Transpose[listinterlacingf2i3coeffmat]
        {37 285, 484 710, 6 301 221, 0, 0, 51 115 513 410}.
         {-6 493 281, 3 465 775, -706 786, 69 030, -3245, 59}
Out[ ]= {86 355, 86 435, 86 515, 85 603, 85 683, 85 763, 85 843, 85 923, 86 003, 86 083, 86 163,
         84 931, 85 011, 85 091, 85 171, 85 251, 85 331, 85 411, 85 491, 85 571, 84 179, 84 259,
         84 339, 84 419, 84 499, 84 579, 84 659, 84 739, 84 819, 84 899, 84 979, 83 587, 83 667,
         83 747, 83 827, 83 907, 83 987, 84 067, 84 147, 84 227, 84 307, 84 387, 83 075, 83 155,
         83 235, 83 315, 83 395, 83 475, 83 555, 83 635, 83 715, 83 795, 82 563, 82 643, 82 723,
         82 803, 82 883, 82 963, 83 043, 83 123, 83 203, 82 051, 82 131, 82 211, 82 291,
         82 371, 82 451, 82 531, 82 611, 81 539, 81 619, 81 699, 81 779, 81 859, 81 939,
         82 019, 82 099, 81 027, 81 107, 81 187, 81 267, 81 347, 81 427, 81 507, 80 515,
         80 595, 80 675, 80 755, 80 835, 80 915, 80 003, 80 083, 80 163, 80 243, 80 323,
         79 491, 79 571, 79 651, 79 731, 78 979, 79 059, 79 139, 78 467, 78 547, 77 955}

Out[ ]= -5 676 351

In[ ]:= Reverse[{37 285, 484 710, 6 301 221, 0, 0, 51 115 513 410}]
Out[ ]= {51 115 513 410, 0, 0, 6 301 221, 484 710, 37 285}

In[ ]:= Solve[Array[n, 3].Coeffmatlast5[[3]] == gveclast5[[3]] && n[1] ≥ 0 && n[2] ≥ 0 && n[3] ≥ 0,
         Array[n, 3], Integers]
Out[ ]= {{n[1] → 0, n[2] → 44, n[3] → 16}, {n[1] → 3, n[2] → 40, n[3] → 17},
         {n[1] → 6, n[2] → 36, n[3] → 18}, {n[1] → 9, n[2] → 32, n[3] → 19},
         {n[1] → 12, n[2] → 28, n[3] → 20}, {n[1] → 15, n[2] → 24, n[3] → 21},
         {n[1] → 18, n[2] → 20, n[3] → 22}, {n[1] → 21, n[2] → 16, n[3] → 23},
         {n[1] → 24, n[2] → 12, n[3] → 24}, {n[1] → 27, n[2] → 8, n[3] → 25},
         {n[1] → 30, n[2] → 4, n[3] → 26}, {n[1] → 33, n[2] → 0, n[3] → 27}}

In[ ]:= Solve[Array[n, 3].Coeffmatlast5[[3]] == gveclast5[[3]] && n[1] ≥ 0 && n[2] == 0 && n[3] ≥ 0,
         Array[n, 3], Integers]
Out[ ]= {{n[1] → 33, n[2] → 0, n[3] → 27}}

(x + 5) ^ 9 (x - 13) ^ 3

In[ ]:= 27 * 26
Out[ ]= 702

In[ ]:= 9 (-5) ^ 2 + 3 × 13 ^ 2
Out[ ]= 732
```

```
In[ ]:= i = 4;
        last5[[i]]
        interlacingpolylast5[[i]] =
          {(-13 + x)^5 (-11 + x)^8 (-9 + x) (5 + x)^41 (11 026 - 4529 x + 673 x^2 - 43 x^3 + x^4),
           (-13 + x)^5 (-11 + x)^8 (-9 + x) (5 + x)^41 (10 966 - 4525 x + 673 x^2 - 43 x^3 + x^4),
           (-13 + x)^6 (-11 + x)^8 (-9 + x)^2 (5 + x)^41 (94 - 21 x + x^2),
           (-13 + x)^5 (-11 + x)^8 (-9 + x) (5 + x)^41 (10 818 - 4513 x + 673 x^2 - 43 x^3 + x^4),
           (-13 + x)^5 (-11 + x)^9 (-9 + x) (5 + x)^41 (-978 + 321 x - 32 x^2 + x^3),
           (-13 + x)^6 (-11 + x)^8 (-10 + x) (-9 + x) (5 + x)^41 (83 - 20 x + x^2),
           (-13 + x)^6 (-11 + x)^9 (-9 + x) (5 + x)^41 (74 - 19 x + x^2)};
        Coeffmatlast5[[i]] =
          CoefficientList[Factor[interlacingpolylast5[[i]] / mu[last5[[i]]], x];
Out[ ]= (-15 + x) (-13 + x)^6 (-11 + x)^9 (-9 + x)^2 (5 + x)^42

In[ ]:= Coeffmatlast5[[i]] // MatrixForm
Out[ ]//MatrixForm=
        ( 11 026  -4529  673  -43  1 )
        ( 10 966  -4525  673  -43  1 )
        ( 10 998  -4525  673  -43  1 )
        ( 10 818  -4513  673  -43  1 )
        ( 10 758  -4509  673  -43  1 )
        ( 10 790  -4509  673  -43  1 )
        ( 10 582  -4493  673  -43  1 )

In[ ]:= gveclast5[[i]] = CoefficientList[D[last5[[i]], x] / mu[last5[[i]]] // Factor, x]
Out[ ]= {659 400, -271 596, 40 380, -2580, 60}

In[ ]:= Solve[n[1] ≥ 0 && n[2] ≥ 0 && n[3] ≥ 0 && n[4] ≥ 0 && n[5] ≥ 0 && n[6] ≥ 0 && n[7] ≥ 0 &&
          Array[n, 7].Coeffmatlast5[[i]] == gveclast5[[i]], Array[n, 7], Reals]
Out[ ]= {{n[1] → 24, n[2] → 36, n[3] → 0, n[4] → 0, n[5] → 0, n[6] → 0, n[7] → 0}}

In[ ]:= Array[c, 5].Transpose[Coeffmatlast5[[i]]]
Out[ ]= {11 026 c[1] - 4529 c[2] + 673 c[3] - 43 c[4] + c[5],
         10 966 c[1] - 4525 c[2] + 673 c[3] - 43 c[4] + c[5],
         10 998 c[1] - 4525 c[2] + 673 c[3] - 43 c[4] + c[5],
         10 818 c[1] - 4513 c[2] + 673 c[3] - 43 c[4] + c[5],
         10 758 c[1] - 4509 c[2] + 673 c[3] - 43 c[4] + c[5],
         10 790 c[1] - 4509 c[2] + 673 c[3] - 43 c[4] + c[5],
         10 582 c[1] - 4493 c[2] + 673 c[3] - 43 c[4] + c[5]}

In[ ]:= Array[c, 5].gveclast5[[i]]
Out[ ]= 659 400 c[1] - 271 596 c[2] + 40 380 c[3] - 2580 c[4] + 60 c[5]
```

In[ ]:=
```
i
Flatten[Array[c, 5] /.
  FindInstance[659 400 c[1] - 271 596 c[2] + 40 380 c[3] - 2580 c[4] + 60 c[5] < 0 &&
    11 026 c[1] - 4529 c[2] + 673 c[3] - 43 c[4] + c[5] ≥ 0 &&
    10 966 c[1] - 4525 c[2] + 673 c[3] - 43 c[4] + c[5] ≥ 0 &&
    10 998 c[1] - 4525 c[2] + 673 c[3] - 43 c[4] + c[5] ≥ 0 &&
    10 818 c[1] - 4513 c[2] + 673 c[3] - 43 c[4] + c[5] ≥ 0 &&
    10 758 c[1] - 4509 c[2] + 673 c[3] - 43 c[4] + c[5] ≥ 0 &&
    10 790 c[1] - 4509 c[2] + 673 c[3] - 43 c[4] + c[5] ≥ 0 &&
    10 582 c[1] - 4493 c[2] + 673 c[3] - 43 c[4] + c[5] ≥ 0, Array[c, 5], Integers]]
```

Out[ ]= 4

Out[ ]= {c[1], c[2], c[3], c[4], c[5]}

In[ ]:=
```
i
Flatten[Array[c, 5] /.
  FindInstance[659 400 c[1] - 271 596 c[2] + 40 380 c[3] - 2580 c[4] + 60 c[5] < 0 &&
    11 026 c[1] - 4529 c[2] + 673 c[3] - 43 c[4] + c[5] < 0 &&
    10 966 c[1] - 4525 c[2] + 673 c[3] - 43 c[4] + c[5] ≥ 0 &&
    10 998 c[1] - 4525 c[2] + 673 c[3] - 43 c[4] + c[5] ≥ 0 &&
    10 818 c[1] - 4513 c[2] + 673 c[3] - 43 c[4] + c[5] ≥ 0 &&
    10 758 c[1] - 4509 c[2] + 673 c[3] - 43 c[4] + c[5] ≥ 0 &&
    10 790 c[1] - 4509 c[2] + 673 c[3] - 43 c[4] + c[5] ≥ 0 &&
    10 582 c[1] - 4493 c[2] + 673 c[3] - 43 c[4] + c[5] ≥ 0, Array[c, 5], Integers]]
```

Out[ ]= 4

Out[ ]= {0, 10 146, 0, 0, 45 911 387}

In[ ]:=
```
GCD[0, 10 146, 0, 0, 45 911 387]
```

Out[ ]= 1

In[ ]:=
```
{0, 10 146, 0, 0, 45 911 387}.Transpose[Coeffmatlast5[[4]]]
{0, 10 146, 0, 0, 45 911 387}.gveclast5[[4]]
```

Out[ ]= {-39 847, 737, 737, 122 489, 163 073, 163 073, 325 409}

Out[ ]= -929 796

In[ ]:=
```
Reverse[{0, 10 146, 0, 0, 45 911 387}]
```

Out[ ]= {45 911 387, 0, 0, 10 146, 0}

In[ ]:=
```
feasibleinterlacingpolylist[
  (-13 + x)^5 (-11 + x)^8 (-9 + x) (5 + x)^41 (11 026 - 4529 x + 673 x^2 - 43 x^3 + x^4)] // Length
```

Out[ ]= 208

In[ ]:=
```
listinterlacingf1 =
  {(-9 + x) (889 149 - 575 206 x + 151 487 x^2 - 20 796 x^3 + 1571 x^4 - 62 x^5 + x^6),
   (-13 + x) (-9 + x) (73 - 18 x + x^2) (-937 + 303 x - 31 x^2 + x^3),
   (-13 + x) (-9 + x) (-7 + x) (9767 - 4174 x + 640 x^2 - 42 x^3 + x^4),
   (-13 + x) (-11 + x) (-9 + x) (6123 - 2970 x + 516 x^2 - 38 x^3 + x^4),
```

$$(-9+x)\left(875\,109-571\,630\,x+151\,191\,x^2-20\,788\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)(-9+x)\left(-67\,321+38\,793\,x-8646\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-9+x)\left(874\,693-571\,598\,x+151\,191\,x^2-20\,788\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)(-9+x)\left(-67\,289+38\,793\,x-8646\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-11+x)(-9+x)\left(-79\,839+44\,749\,x-9678\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-9+x)\left(877\,813-572\,046\,x+151\,207\,x^2-20\,788\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)(-11+x)(-9+x)(-7+x)\left(-877+299\,x-31\,x^2+x^3\right),$$
$$(-9+x)\left(877\,397-572\,014\,x+151\,207\,x^2-20\,788\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)(-9+x)\left(-67\,497+38\,809\,x-8646\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-9+x)\left(876\,981-571\,982\,x+151\,207\,x^2-20\,788\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)(-9+x)\left(-67\,465+38\,809\,x-8646\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-9+x)\left(95-20\,x+x^2\right)\left(9227-4078\,x+636\,x^2-42\,x^3+x^4\right),$$
$$(-13+x)(-9+x)\left(-67\,433+38\,809\,x-8646\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-9+x)\left(880\,101-572\,430\,x+151\,223\,x^2-20\,788\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-9+x)\left(879\,685-572\,398\,x+151\,223\,x^2-20\,788\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)(-9+x)\left(59-16\,x+x^2\right)\left(-1147+347\,x-33\,x^2+x^3\right),$$
$$(-9+x)\left(879\,269-572\,366\,x+151\,223\,x^2-20\,788\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)(-9+x)(-7+x)\left(9663-4166\,x+640\,x^2-42\,x^3+x^4\right),$$
$$(-9+x)\left(69-18\,x+x^2\right)\left(12\,737-4972\,x+710\,x^2-44\,x^3+x^4\right),$$
$$(-13+x)(-9+x)\left(-67\,609+38\,825\,x-8646\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)(-9+x)\left(-67\,577+38\,825\,x-8646\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-9+x)\left(-1087+343\,x-33\,x^2+x^3\right)\left(-811+271\,x-29\,x^2+x^3\right),$$
$$(-13+x)(-9+x)\left(-67\,785+38\,841\,x-8646\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)(-9+x)(-7+x)\left(9679-4166\,x+640\,x^2-42\,x^3+x^4\right),$$
$$(-13+x)(-9+x)\left(-67\,721+38\,841\,x-8646\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)(-9+x)\left(-67\,897+38\,857\,x-8646\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)(-11+x)(-9+x)^2\left(-667+255\,x-29\,x^2+x^3\right),$$
$$(-11+x)(-9+x)\left(-78\,279+44\,525\,x-9670\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-9+x)\left(860\,653-568\,022\,x+150\,895\,x^2-20\,780\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)(-11+x)(-9+x)\left(6019-2962\,x+516\,x^2-38\,x^3+x^4\right),$$
$$(-11+x)(-9+x)\left(-78\,519+44\,541\,x-9670\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-9+x)\left(863\,293-568\,438\,x+150\,911\,x^2-20\,780\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-11+x)(-9+x)\left(-78\,487+44\,541\,x-9670\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-9+x)\left(862\,877-568\,406\,x+150\,911\,x^2-20\,780\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-9+x)\left(862\,941-568\,406\,x+150\,911\,x^2-20\,780\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)(-11+x)(-9+x)(-5+x)\left(-1207+351\,x-33\,x^2+x^3\right),$$
$$(-9+x)\left(862\,525-568\,374\,x+150\,911\,x^2-20\,780\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)(-9+x)\left(-66\,353+38\,617\,x-8638\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-11+x)^2(-9+x)\left(7157-3400\,x+570\,x^2-40\,x^3+x^4\right),$$
$$(-9+x)\left(865\,581-568\,822\,x+150\,927\,x^2-20\,780\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-11+x)(-9+x)\left(-78\,695+44\,557\,x-9670\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-9+x)\left(865\,229-568\,790\,x+150\,927\,x^2-20\,780\,x^3+1571\,x^4-62\,x^5+x^6\right),$$

$$(-13+x)\,(-11+x)\,(-9+x)\,\left(6051-2962\,x+516\,x^2-38\,x^3+x^4\right),$$
$$(-9+x)\,\left(864\,813-568\,758\,x+150\,927\,x^2-20\,780\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)\,(-9+x)\,\left(-66\,529+38\,633\,x-8638\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-9+x)\,\left(864\,397-568\,726\,x+150\,927\,x^2-20\,780\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)\,(-9+x)\,\left(-66\,497+38\,633\,x-8638\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-11+x)\,(-9+x)\,\left(-78\,935+44\,573\,x-9670\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-11+x)^2\,(-9+x)\,\left(7173-3400\,x+570\,x^2-40\,x^3+x^4\right),$$
$$(-9+x)\,\left(867\,517-569\,174\,x+150\,943\,x^2-20\,780\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)\,(-11+x)\,(-9+x)\,\left(6067-2962\,x+516\,x^2-38\,x^3+x^4\right),$$
$$(-9+x)\,\left(867\,101-569\,142\,x+150\,943\,x^2-20\,780\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)\,(-9+x)\,\left(-66\,705+38\,649\,x-8638\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-9+x)\,\left(95-20\,x+x^2\right)\,\left(9123-4070\,x+636\,x^2-42\,x^3+x^4\right),$$
$$(-13+x)\,(-9+x)\,\left(-66\,673+38\,649\,x-8638\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,\left(-66\,641+38\,649\,x-8638\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-11+x)\,(-9+x)\,\left(-79\,111+44\,589\,x-9670\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-9+x)\,\left(869\,805-569\,558\,x+150\,959\,x^2-20\,780\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)\,(-11+x)^2\,(-9+x)\,(-7+x)\,\left(79-20\,x+x^2\right),$$
$$(-9+x)\,\left(869\,389-569\,526\,x+150\,959\,x^2-20\,780\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)\,(-9+x)\,\left(-66\,881+38\,665\,x-8638\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,\left(-66\,849+38\,665\,x-8638\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,\left(109-22\,x+x^2\right)\,\left(-613+231\,x-27\,x^2+x^3\right),$$
$$(-13+x)\,(-9+x)\,\left(95-20\,x+x^2\right)\,\left(-703+259\,x-29\,x^2+x^3\right),$$
$$(-9+x)\,\left(872\,093-569\,942\,x+150\,975\,x^2-20\,780\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)\,(-11+x)\,(-9+x)\,\left(6099-2962\,x+516\,x^2-38\,x^3+x^4\right),$$
$$(-13+x)\,(-9+x)\,\left(-67\,057+38\,681\,x-8638\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,(-7+x)\,\left(9575-4158\,x+640\,x^2-42\,x^3+x^4\right),$$
$$(-13+x)\,(-9+x)\,\left(-66\,993+38\,681\,x-8638\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,\left(-66\,961+38\,681\,x-8638\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,\left(59-16\,x+x^2\right)\,\left(-1139+347\,x-33\,x^2+x^3\right),$$
$$(-13+x)\,(-9+x)\,\left(-67\,169+38\,697\,x-8638\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,(-7+x)\,\left(139-24\,x+x^2\right)\,\left(69-18\,x+x^2\right),$$
$$(-11+x)\,(-9+x)^2\,\left(8551-3974\,x+632\,x^2-42\,x^3+x^4\right),$$
$$(-11+x)\,(-9+x)\,\left(-77\,167+44\,333\,x-9662\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-9+x)^2\,\left(-94\,269+52\,281\,x-10\,926\,x^2+1094\,x^3-53\,x^4+x^5\right),$$
$$(-11+x)\,(-9+x)\,\left(-77\,135+44\,333\,x-9662\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-13+x)\,(-11+x)\,(-9+x)^2\,\left(-659+255\,x-29\,x^2+x^3\right),$$
$$(-11+x)\,(-9+x)\,\left(-77\,375+44\,349\,x-9662\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-9+x)\,\left(850\,709-565\,182\,x+150\,631\,x^2-20\,772\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-11+x)\,(-9+x)\,\left(-77\,343+44\,349\,x-9662\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-9+x)\,\left(850\,357-565\,150\,x+150\,631\,x^2-20\,772\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)\,(-11+x)\,(-9+x)\,\left(5947-2954\,x+516\,x^2-38\,x^3+x^4\right),$$
$$(-13+x)\,(-9+x)^2\,\left(7265-3464\,x+574\,x^2-40\,x^3+x^4\right),$$

$$(-11+x)^2\,(-9+x)\,\left(7053-3392\,x+570\,x^2-40\,x^3+x^4\right),$$
$$(-11+x)\,(-9+x)\,\left(-77\,551+44\,365\,x-9662\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-9+x)\,\left(852\,645-565\,534\,x+150\,647\,x^2-20\,772\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)\,(-11+x)\,(-9+x)\,\left(5963-2954\,x+516\,x^2-38\,x^3+x^4\right),$$
$$(-9+x)\,\left(-1477+399\,x-35\,x^2+x^3\right)\,\left(-577+227\,x-27\,x^2+x^3\right),$$
$$(-13+x)\,(-9+x)\,\left(-65\,561+38\,457\,x-8630\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-11+x)^2\,(-9+x)\,\left(7069-3392\,x+570\,x^2-40\,x^3+x^4\right),$$
$$(-9+x)\,\left(854\,933-565\,918\,x+150\,663\,x^2-20\,772\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)\,(-11+x)\,(-9+x)\,\left(5979-2954\,x+516\,x^2-38\,x^3+x^4\right),$$
$$(-9+x)\,\left(854\,517-565\,886\,x+150\,663\,x^2-20\,772\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)\,(-9+x)\,\left(-65\,737+38\,473\,x-8630\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,\left(-65\,705+38\,473\,x-8630\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-11+x)\,(-9+x)\,\left(-77\,967+44\,397\,x-9662\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-9+x)\,\left(857\,221-566\,302\,x+150\,679\,x^2-20\,772\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)\,(-11+x)^2\,(-9+x)\,(-5+x)\,\left(109-22\,x+x^2\right),$$
$$(-9+x)\,\left(95-20\,x+x^2\right)\,\left(9019-4062\,x+636\,x^2-42\,x^3+x^4\right),$$
$$(-13+x)\,(-9+x)\,\left(-65\,913+38\,489\,x-8630\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,\left(-65\,881+38\,489\,x-8630\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,\left(-65\,849+38\,489\,x-8630\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-11+x)\,(-9+x)\,\left(-78\,175+44\,413\,x-9662\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-9+x)\,\left(859\,509-566\,686\,x+150\,695\,x^2-20\,772\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)\,(-11+x)\,(-9+x)\,\left(6011-2954\,x+516\,x^2-38\,x^3+x^4\right),$$
$$(-13+x)\,(-9+x)\,\left(-66\,089+38\,505\,x-8630\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,\left(-66\,057+38\,505\,x-8630\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,(-5+x)\,\left(139-24\,x+x^2\right)\,\left(95-20\,x+x^2\right),$$
$$(-13+x)\,(-9+x)\,\left(-65\,993+38\,505\,x-8630\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-11+x)\,(-9+x)\,\left(-78\,383+44\,429\,x-9662\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-13+x)\,(-11+x)\,(-9+x)\,(-7+x)\,\left(-861+299\,x-31\,x^2+x^3\right),$$
$$(-13+x)\,(-9+x)\,\left(-66\,265+38\,521\,x-8630\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,\left(-66\,233+38\,521\,x-8630\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,\left(-66\,201+38\,521\,x-8630\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-11+x)\,(-9+x)\,\left(6043-2954\,x+516\,x^2-38\,x^3+x^4\right),$$
$$(-13+x)\,(-9+x)\,\left(-66\,441+38\,537\,x-8630\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,(-7+x)\,\left(9487-4150\,x+640\,x^2-42\,x^3+x^4\right),$$
$$(-13+x)\,(-9+x)\,\left(69-18\,x+x^2\right)\,\left(-965+307\,x-31\,x^2+x^3\right),$$
$$(-11+x)\,(-9+x)^2\,\left(8447-3966\,x+632\,x^2-42\,x^3+x^4\right),$$
$$(-11+x)\,(-9+x)\,\left(-76\,231+44\,157\,x-9654\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-11+x)\,(-9+x)\,\left(-76\,199+44\,157\,x-9654\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-13+x)\,(-11+x)\,(-9+x)^2\,\left(-651+255\,x-29\,x^2+x^3\right),$$
$$(-11+x)^2\,(-9+x)\,\left(6949-3384\,x+570\,x^2-40\,x^3+x^4\right),$$
$$(-11+x)\,(-9+x)\,\left(-76\,407+44\,173\,x-9654\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-9+x)\,\left(840\,061-562\,278\,x+150\,367\,x^2-20\,764\,x^3+1571\,x^4-62\,x^5+x^6\right),$$

$$(-13+x)\,(-11+x)\,(-9+x)\,\left(5875-2946\,x+516\,x^2-38\,x^3+x^4\right),$$
$$(-13+x)\,(-9+x)^2\,\left(7177-3456\,x+574\,x^2-40\,x^3+x^4\right),$$
$$(-11+x)^2\,(-9+x)\,\left(6965-3384\,x+570\,x^2-40\,x^3+x^4\right),$$
$$(-9+x)\,\left(842\,349-562\,662\,x+150\,383\,x^2-20\,764\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)\,(-11+x)\,(-9+x)\,\left(5891-2946\,x+516\,x^2-38\,x^3+x^4\right),$$
$$(-9+x)\,\left(841\,933-562\,630\,x+150\,383\,x^2-20\,764\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)\,(-9+x)\,\left(-64\,769+38\,297\,x-8622\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)^2\,\left(7193-3456\,x+574\,x^2-40\,x^3+x^4\right),$$
$$(-11+x)\,(-9+x)\,\left(-76\,823+44\,205\,x-9654\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-9+x)\,\left(844\,637-563\,046\,x+150\,399\,x^2-20\,764\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)\,(-11+x)^2\,(-9+x)\,\left(-537+219\,x-27\,x^2+x^3\right),$$
$$(-13+x)\,(-9+x)\,\left(-64\,945+38\,313\,x-8622\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,\left(139-24\,x+x^2\right)\,\left(-467+195\,x-25\,x^2+x^3\right),$$
$$(-11+x)\,(-9+x)\,\left(-77\,031+44\,221\,x-9654\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-13+x)\,(-11+x)\,(-9+x)\,\left(5923-2946\,x+516\,x^2-38\,x^3+x^4\right),$$
$$(-13+x)\,(-9+x)\,\left(-65\,121+38\,329\,x-8622\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,\left(-65\,089+38\,329\,x-8622\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,\left(-65\,057+38\,329\,x-8622\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-11+x)\,(-9+x)\,\left(-77\,239+44\,237\,x-9654\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-13+x)\,(-11+x)\,(-9+x)\,\left(5939-2946\,x+516\,x^2-38\,x^3+x^4\right),$$
$$(-13+x)\,(-9+x)\,\left(-65\,297+38\,345\,x-8622\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,\left(95-20\,x+x^2\right)\,\left(-687+259\,x-29\,x^2+x^3\right),$$
$$(-13+x)\,(-9+x)\,\left(-65\,233+38\,345\,x-8622\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-11+x)\,\left(697\,087-475\,724\,x+131\,139\,x^2-18\,744\,x^3+1469\,x^4-60\,x^5+x^6\right),$$
$$(-13+x)\,(-11+x)\,(-9+x)\,(-5+x)\,\left(-1191+351\,x-33\,x^2+x^3\right),$$
$$(-13+x)\,(-9+x)\,\left(-65\,473+38\,361\,x-8622\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-9+x)\,\left(-65\,441+38\,361\,x-8622\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-11+x)\,\left(698\,959-476\,076\,x+131\,155\,x^2-18\,744\,x^3+1469\,x^4-60\,x^5+x^6\right),$$
$$(-13+x)\,(-11+x)\,(-9+x)\,(-7+x)\,\left(-853+299\,x-31\,x^2+x^3\right),$$
$$(-13+x)\,(-9+x)\,\left(-65\,649+38\,377\,x-8622\,x^2+934\,x^3-49\,x^4+x^5\right),$$
$$(-13+x)\,(-11+x)\,(-9+x)\,\left(5987-2946\,x+516\,x^2-38\,x^3+x^4\right),$$
$$(-11+x)\,(-9+x)^2\,\left(8343-3958\,x+632\,x^2-42\,x^3+x^4\right),$$
$$(-11+x)\,(-9+x)\,\left(-75\,263+43\,981\,x-9646\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-13+x)\,(-11+x)\,(-9+x)^2\,\left(-643+255\,x-29\,x^2+x^3\right),$$
$$(-11+x)^2\,(-9+x)\,\left(6861-3376\,x+570\,x^2-40\,x^3+x^4\right),$$
$$(-9+x)\,\left(829\,765-559\,406\,x+150\,103\,x^2-20\,756\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)\,(-11+x)\,(-9+x)\,\left(5803-2938\,x+516\,x^2-38\,x^3+x^4\right),$$
$$(-13+x)\,(-9+x)^2\,\left(139-24\,x+x^2\right)\,\left(51-16\,x+x^2\right),$$
$$(-11+x)\,(-9+x)\,\left(-75\,679+44\,013\,x-9646\,x^2+1010\,x^3-51\,x^4+x^5\right),$$
$$(-9+x)\,\left(832\,053-559\,790\,x+150\,119\,x^2-20\,756\,x^3+1571\,x^4-62\,x^5+x^6\right),$$
$$(-13+x)\,(-11+x)^2\,(-9+x)\,\left(-529+219\,x-27\,x^2+x^3\right),$$
$$(-13+x)\,(-9+x)\,\left(-63\,977+38\,137\,x-8614\,x^2+934\,x^3-49\,x^4+x^5\right),$$

```
    (-13 + x) (-9 + x)^2 (7105 - 3448 x + 574 x^2 - 40 x^3 + x^4),
    (-11 + x) (-9 + x) (-75 887 + 44 029 x - 9646 x^2 + 1010 x^3 - 51 x^4 + x^5),
    (-13 + x) (-11 + x) (-9 + x) (5835 - 2938 x + 516 x^2 - 38 x^3 + x^4),
    (-13 + x) (-9 + x) (-64 153 + 38 153 x - 8614 x^2 + 934 x^3 - 49 x^4 + x^5),
    (-13 + x) (-9 + x) (-64 121 + 38 153 x - 8614 x^2 + 934 x^3 - 49 x^4 + x^5),
    (-13 + x) (-9 + x)^2 (7121 - 3448 x + 574 x^2 - 40 x^3 + x^4),
    (-13 + x) (-11 + x) (-9 + x) (5851 - 2938 x + 516 x^2 - 38 x^3 + x^4),
    (-13 + x) (-9 + x) (-64 329 + 38 169 x - 8614 x^2 + 934 x^3 - 49 x^4 + x^5),
    (-13 + x) (-9 + x) (113 - 22 x + x^2) (-569 + 227 x - 27 x^2 + x^3),
    (-13 + x) (-11 + x) (-9 + x) (5867 - 2938 x + 516 x^2 - 38 x^3 + x^4),
    (-13 + x) (-9 + x) (95 - 20 x + x^2) (-679 + 259 x - 29 x^2 + x^3),
    (-13 + x) (-11 + x) (-9 + x) (5883 - 2938 x + 516 x^2 - 38 x^3 + x^4),
    (-13 + x) (-11 + x) (-9 + x) (5899 - 2938 x + 516 x^2 - 38 x^3 + x^4),
    (-11 + x)^2 (-9 + x) (6757 - 3368 x + 570 x^2 - 40 x^3 + x^4),
    (-13 + x) (-11 + x) (-9 + x)^2 (-635 + 255 x - 29 x^2 + x^3),
    (-11 + x) (-9 + x) (-74 535 + 43 821 x - 9638 x^2 + 1010 x^3 - 51 x^4 + x^5),
    (-13 + x) (-11 + x)^2 (-9 + x) (-521 + 219 x - 27 x^2 + x^3),
    (-13 + x) (-9 + x)^2 (7001 - 3440 x + 574 x^2 - 40 x^3 + x^4),
    (-13 + x) (-11 + x) (-9 + x) (5747 - 2930 x + 516 x^2 - 38 x^3 + x^4),
    (-13 + x) (-9 + x) (-63 185 + 37 977 x - 8606 x^2 + 934 x^3 - 49 x^4 + x^5),
    (-13 + x) (-9 + x)^2 (7017 - 3440 x + 574 x^2 - 40 x^3 + x^4),
    (-13 + x) (-11 + x) (-9 + x) (113 - 22 x + x^2) (51 - 16 x + x^2),
    (-13 + x) (-9 + x) (-63 361 + 37 993 x - 8606 x^2 + 934 x^3 - 49 x^4 + x^5),
    (-13 + x) (-11 + x) (-9 + x) (5779 - 2930 x + 516 x^2 - 38 x^3 + x^4),
    (-13 + x) (-9 + x) (-63 537 + 38 009 x - 8606 x^2 + 934 x^3 - 49 x^4 + x^5),
    (-13 + x) (-11 + x) (-9 + x) (95 - 20 x + x^2) (61 - 18 x + x^2),
    (-13 + x) (-11 + x)^2 (-9 + x)^2 (57 - 18 x + x^2),
    (-13 + x) (-11 + x) (-9 + x) (5659 - 2922 x + 516 x^2 - 38 x^3 + x^4),
    (-13 + x) (-9 + x)^2 (6913 - 3432 x + 574 x^2 - 40 x^3 + x^4),
    (-13 + x) (-11 + x) (-9 + x) (5675 - 2922 x + 516 x^2 - 38 x^3 + x^4),
    (-13 + x) (-9 + x) (-62 393 + 37 817 x - 8598 x^2 + 934 x^3 - 49 x^4 + x^5),
    (-13 + x) (-11 + x) (-9 + x) (5691 - 2922 x + 516 x^2 - 38 x^3 + x^4),
    (-13 + x) (-11 + x) (-9 + x)^2 (-619 + 255 x - 29 x^2 + x^3),
    (-13 + x) (-11 + x) (-9 + x) (5587 - 2914 x + 516 x^2 - 38 x^3 + x^4),
    (-13 + x)^2 (-11 + x) (-9 + x) (-431 + 191 x - 25 x^2 + x^3),
    (-13 + x)^2 (-11 + x) (-9 + x)^2 (47 - 16 x + x^2)};
Length[listinterlacingf1]
```

Out[ ]= 208

```
In[ ]:= listinterlacingf1coeffmat = CoefficientList[listinterlacingf1, x];
listinterlacingf1coeffmat // Dimensions
```

Out[ ]= {208, 8}

```
In[•]:= CoefficientList[
          D[(-13 + x)^5 (-11 + x)^8 (-9 + x) (5 + x)^41 (11026 - 4529 x + 673 x^2 - 43 x^3 + x^4), x] /
            mu[(-13 + x)^5 (-11 + x)^8 (-9 + x) (5 + x)^41
              (11026 - 4529 x + 673 x^2 - 43 x^3 + x^4)] // Factor, x]

Out[•]= {-465890207, 355483889, -114032079, 19958761, -2060661, 125611, -4189, 59}

In[•]:= Array[c, 8].Transpose[listinterlacingf1coeffmat]

Out[•]= {-8002341 c[1] + 6066003 c[2] - 1938589 c[3] + 338651 c[4] -
          34935 c[5] + 2129 c[6] - 71 c[7] + c[8], -8002917 c[1] + 6066067 c[2] -
          1938589 c[3] + 338651 c[4] - 34935 c[5] + 2129 c[6] - 71 c[7] + c[8],
         -7999173 c[1] + 6065363 c[2] - 1938557 c[3] + 338651 c[4] - 34935 c[5] +
          2129 c[6] - 71 c[7] + c[8], -7880301 c[1] + 6020547 c[2] -
          1932381 c[3] + 338283 c[4] - 34927 c[5] + 2129 c[6] - 71 c[7] + c[8],
         -7875981 c[1] + 6019779 c[2] - 1932349 c[3] + 338283 c[4] - 34927 c[5] +
          2129 c[6] - 71 c[7] + c[8], -7876557 c[1] + 6019843 c[2] -
          1932349 c[3] + 338283 c[4] - 34927 c[5] + 2129 c[6] - 71 c[7] + c[8],
         -7872237 c[1] + 6019075 c[2] - 1932317 c[3] + 338283 c[4] - 34927 c[5] +
          2129 c[6] - 71 c[7] + c[8], -7872813 c[1] + 6019139 c[2] -
          1932317 c[3] + 338283 c[4] - 34927 c[5] + 2129 c[6] - 71 c[7] + c[8],
         -7904061 c[1] + 6026931 c[2] - 1932941 c[3] + 338299 c[4] - 34927 c[5] +
          2129 c[6] - 71 c[7] + c[8], -7900317 c[1] + 6026227 c[2] -
          1932909 c[3] + 338299 c[4] - 34927 c[5] + 2129 c[6] - 71 c[7] + c[8],
         -7900893 c[1] + 6026291 c[2] - 1932909 c[3] + 338299 c[4] - 34927 c[5] +
          2129 c[6] - 71 c[7] + c[8], -7896573 c[1] + 6025523 c[2] -
          1932877 c[3] + 338299 c[4] - 34927 c[5] + 2129 c[6] - 71 c[7] + c[8],
         -7897149 c[1] + 6025587 c[2] - 1932877 c[3] + 338299 c[4] - 34927 c[5] +
          2129 c[6] - 71 c[7] + c[8], -7892829 c[1] + 6024819 c[2] -
          1932845 c[3] + 338299 c[4] - 34927 c[5] + 2129 c[6] - 71 c[7] + c[8],
         -7893405 c[1] + 6024883 c[2] - 1932845 c[3] + 338299 c[4] - 34927 c[5] +
          2129 c[6] - 71 c[7] + c[8], -7889085 c[1] + 6024115 c[2] -
          1932813 c[3] + 338299 c[4] - 34927 c[5] + 2129 c[6] - 71 c[7] + c[8],
         -7889661 c[1] + 6024179 c[2] - 1932813 c[3] + 338299 c[4] - 34927 c[5] +
          2129 c[6] - 71 c[7] + c[8], -7920909 c[1] + 6031971 c[2] -
          1933437 c[3] + 338315 c[4] - 34927 c[5] + 2129 c[6] - 71 c[7] + c[8],
         -7917165 c[1] + 6031267 c[2] - 1933405 c[3] + 338315 c[4] - 34927 c[5] +
          2129 c[6] - 71 c[7] + c[8], -7917741 c[1] + 6031331 c[2] -
          1933405 c[3] + 338315 c[4] - 34927 c[5] + 2129 c[6] - 71 c[7] + c[8],
         -7913421 c[1] + 6030563 c[2] - 1933373 c[3] + 338315 c[4] - 34927 c[5] +
          2129 c[6] - 71 c[7] + c[8], -7913997 c[1] + 6030627 c[2] -
          1933373 c[3] + 338315 c[4] - 34927 c[5] + 2129 c[6] - 71 c[7] + c[8],
         -7909677 c[1] + 6029859 c[2] - 1933341 c[3] + 338315 c[4] - 34927 c[5] +
          2129 c[6] - 71 c[7] + c[8], -7910253 c[1] + 6029923 c[2] -
          1933341 c[3] + 338315 c[4] - 34927 c[5] + 2129 c[6] - 71 c[7] + c[8],
         -7906509 c[1] + 6029219 c[2] - 1933309 c[3] + 338315 c[4] - 34927 c[5] +
          2129 c[6] - 71 c[7] + c[8], -7934013 c[1] + 6036307 c[2] -
          1933901 c[3] + 338331 c[4] - 34927 c[5] + 2129 c[6] - 71 c[7] + c[8],
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-7930845 c[1] + 6035667 c[2] - 1933869 c[3] + 338331 c[4] - 34927 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7927101 c[1] + 6034963 c[2] -
 1933837 c[3] + 338331 c[4] - 34927 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7923357 c[1] + 6034259 c[2] - 1933805 c[3] + 338331 c[4] - 34927 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7943949 c[1] + 6040003 c[2] -
 1934333 c[3] + 338347 c[4] - 34927 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7725861 c[1] + 5967171 c[2] - 1925549 c[3] + 337899 c[4] - 34919 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7749621 c[1] + 5973555 c[2] -
 1926109 c[3] + 337915 c[4] - 34919 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7745877 c[1] + 5972851 c[2] - 1926077 c[3] + 337915 c[4] - 34919 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7746453 c[1] + 5972915 c[2] -
 1926077 c[3] + 337915 c[4] - 34919 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7773381 c[1] + 5979939 c[2] - 1926669 c[3] + 337931 c[4] - 34919 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7769637 c[1] + 5979235 c[2] -
 1926637 c[3] + 337931 c[4] - 34919 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7770213 c[1] + 5979299 c[2] - 1926637 c[3] + 337931 c[4] - 34919 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7765893 c[1] + 5978531 c[2] -
 1926605 c[3] + 337931 c[4] - 34919 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7766469 c[1] + 5978595 c[2] - 1926605 c[3] + 337931 c[4] - 34919 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7767045 c[1] + 5978659 c[2] -
 1926605 c[3] + 337931 c[4] - 34919 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7762725 c[1] + 5977891 c[2] - 1926573 c[3] + 337931 c[4] - 34919 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7763301 c[1] + 5977955 c[2] -
 1926573 c[3] + 337931 c[4] - 34919 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7793973 c[1] + 5985683 c[2] - 1927197 c[3] + 337947 c[4] - 34919 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7790229 c[1] + 5984979 c[2] -
 1927165 c[3] + 337947 c[4] - 34919 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7790805 c[1] + 5985043 c[2] - 1927165 c[3] + 337947 c[4] - 34919 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7787061 c[1] + 5984339 c[2] -
 1927133 c[3] + 337947 c[4] - 34919 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7787637 c[1] + 5984403 c[2] - 1927133 c[3] + 337947 c[4] - 34919 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7783317 c[1] + 5983635 c[2] -
 1927101 c[3] + 337947 c[4] - 34919 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7783893 c[1] + 5983699 c[2] - 1927101 c[3] + 337947 c[4] - 34919 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7779573 c[1] + 5982931 c[2] -
 1927069 c[3] + 337947 c[4] - 34919 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7780149 c[1] + 5982995 c[2] - 1927069 c[3] + 337947 c[4] - 34919 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7814565 c[1] + 5991427 c[2] -
 1927725 c[3] + 337963 c[4] - 34919 c[5] + 2129 c[6] - 71 c[7] + c[8],
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 1 912 973 c[3] + 336 987 c[4] - 34 895 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7 592 013 c[1] + 5 898 947 c[2] - 1 913 501 c[3] + 337 003 c[4] - 34 895 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7 358 373 c[1] + 5 823 235 c[2] -
 1 904 589 c[3] + 336 555 c[4] - 34 887 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7 355 205 c[1] + 5 822 595 c[2] - 1 904 557 c[3] + 336 555 c[4] - 34 887 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7 378 965 c[1] + 5 828 979 c[2] -
 1 905 117 c[3] + 336 571 c[4] - 34 887 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7 375 797 c[1] + 5 828 339 c[2] - 1 905 085 c[3] + 336 571 c[4] - 34 887 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7 372 053 c[1] + 5 827 635 c[2] -
 1 905 053 c[3] + 336 571 c[4] - 34 887 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7 396 389 c[1] + 5 834 083 c[2] - 1 905 613 c[3] + 336 587 c[4] - 34 887 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7 392 645 c[1] + 5 833 379 c[2] -
 1 905 581 c[3] + 336 587 c[4] - 34 887 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7 388 901 c[1] + 5 832 675 c[2] - 1 905 549 c[3] + 336 587 c[4] - 34 887 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7 416 981 c[1] + 5 839 827 c[2] -
 1 906 141 c[3] + 336 603 c[4] - 34 887 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7 413 237 c[1] + 5 839 123 c[2] - 1 906 109 c[3] + 336 603 c[4] - 34 887 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7 437 573 c[1] + 5 845 571 c[2] -
 1 906 669 c[3] + 336 619 c[4] - 34 887 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7 433 829 c[1] + 5 844 867 c[2] - 1 906 637 c[3] + 336 619 c[4] - 34 887 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7 458 165 c[1] + 5 851 315 c[2] -
 1 907 197 c[3] + 336 635 c[4] - 34 887 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7 262 541 c[1] + 5 786 451 c[2] - 1 899 309 c[3] + 336 219 c[4] - 34 879 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7 283 133 c[1] + 5 792 195 c[2] -
 1 899 837 c[3] + 336 235 c[4] - 34 879 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7 279 389 c[1] + 5 791 491 c[2] - 1 899 805 c[3] + 336 235 c[4] - 34 879 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7 303 725 c[1] + 5 797 939 c[2] -
 1 900 365 c[3] + 336 251 c[4] - 34 879 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7 299 981 c[1] + 5 797 235 c[2] - 1 900 333 c[3] + 336 251 c[4] - 34 879 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7 324 317 c[1] + 5 803 683 c[2] -
 1 900 893 c[3] + 336 267 c[4] - 34 879 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7 169 877 c[1] + 5 750 307 c[2] - 1 894 061 c[3] + 335 883 c[4] - 34 871 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7 190 469 c[1] + 5 756 051 c[2] -
 1 894 589 c[3] + 335 899 c[4] - 34 871 c[5] + 2129 c[6] - 71 c[7] + c[8],
-7 211 061 c[1] + 5 761 795 c[2] - 1 895 117 c[3] + 335 915 c[4] - 34 871 c[5] +
 2129 c[6] - 71 c[7] + c[8], -7 077 213 c[1] + 5 714 163 c[2] -
 1 888 813 c[3] + 335 547 c[4] - 34 863 c[5] + 2129 c[6] - 71 c[7] + c[8]}
```

In[ ]:=
```
Array[c, 8].
 {-465 890 207, 355 483 889, -114 032 079, 19 958 761, -2 060 661, 125 611, -4189, 59}
```

Out[ ]=
```
-465 890 207 c[1] + 355 483 889 c[2] - 114 032 079 c[3] +
 19 958 761 c[4] - 2 060 661 c[5] + 125 611 c[6] - 4189 c[7] + 59 c[8]
```

In[ ]:=
```
FindInstance[
 -465 890 207 c[1] + 355 483 889 c[2] - 114 032 079 c[3] + 19 958 761 c[4] - 2 060 661 c[5] +
    125 611 c[6] - 4189 c[7] + 59 c[8] < 0 && -8 002 341 c[1] + 6 066 003 c[2] -
```

```
  1 938 589 c[3] + 338 651 c[4] - 34 935 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-8 002 917 c[1] + 6 066 067 c[2] - 1 938 589 c[3] + 338 651 c[4] - 34 935 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 999 173 c[1] + 6 065 363 c[2] -
  1 938 557 c[3] + 338 651 c[4] - 34 935 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 880 301 c[1] + 6 020 547 c[2] - 1 932 381 c[3] + 338 283 c[4] - 34 927 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 875 981 c[1] + 6 019 779 c[2] -
  1 932 349 c[3] + 338 283 c[4] - 34 927 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 876 557 c[1] + 6 019 843 c[2] - 1 932 349 c[3] + 338 283 c[4] - 34 927 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 872 237 c[1] + 6 019 075 c[2] -
  1 932 317 c[3] + 338 283 c[4] - 34 927 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 872 813 c[1] + 6 019 139 c[2] - 1 932 317 c[3] + 338 283 c[4] - 34 927 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 904 061 c[1] + 6 026 931 c[2] -
  1 932 941 c[3] + 338 299 c[4] - 34 927 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 900 317 c[1] + 6 026 227 c[2] - 1 932 909 c[3] + 338 299 c[4] - 34 927 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 900 893 c[1] + 6 026 291 c[2] -
  1 932 909 c[3] + 338 299 c[4] - 34 927 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 896 573 c[1] + 6 025 523 c[2] - 1 932 877 c[3] + 338 299 c[4] - 34 927 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 897 149 c[1] + 6 025 587 c[2] -
  1 932 877 c[3] + 338 299 c[4] - 34 927 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 892 829 c[1] + 6 024 819 c[2] - 1 932 845 c[3] + 338 299 c[4] - 34 927 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 893 405 c[1] + 6 024 883 c[2] -
  1 932 845 c[3] + 338 299 c[4] - 34 927 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 889 085 c[1] + 6 024 115 c[2] - 1 932 813 c[3] + 338 299 c[4] - 34 927 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 889 661 c[1] + 6 024 179 c[2] -
  1 932 813 c[3] + 338 299 c[4] - 34 927 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 920 909 c[1] + 6 031 971 c[2] - 1 933 437 c[3] + 338 315 c[4] - 34 927 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 917 165 c[1] + 6 031 267 c[2] -
  1 933 405 c[3] + 338 315 c[4] - 34 927 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 917 741 c[1] + 6 031 331 c[2] - 1 933 405 c[3] + 338 315 c[4] - 34 927 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 913 421 c[1] + 6 030 563 c[2] -
  1 933 373 c[3] + 338 315 c[4] - 34 927 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 913 997 c[1] + 6 030 627 c[2] - 1 933 373 c[3] + 338 315 c[4] - 34 927 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 909 677 c[1] + 6 029 859 c[2] -
  1 933 341 c[3] + 338 315 c[4] - 34 927 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 910 253 c[1] + 6 029 923 c[2] - 1 933 341 c[3] + 338 315 c[4] - 34 927 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 906 509 c[1] + 6 029 219 c[2] -
  1 933 309 c[3] + 338 315 c[4] - 34 927 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 934 013 c[1] + 6 036 307 c[2] - 1 933 901 c[3] + 338 331 c[4] - 34 927 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 930 845 c[1] + 6 035 667 c[2] -
  1 933 869 c[3] + 338 331 c[4] - 34 927 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 927 101 c[1] + 6 034 963 c[2] - 1 933 837 c[3] + 338 331 c[4] - 34 927 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 923 357 c[1] + 6 034 259 c[2] -
  1 933 805 c[3] + 338 331 c[4] - 34 927 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 943 949 c[1] + 6 040 003 c[2] - 1 934 333 c[3] + 338 347 c[4] - 34 927 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 725 861 c[1] + 5 967 171 c[2] -
  1 925 549 c[3] + 337 899 c[4] - 34 919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 749 621 c[1] + 5 973 555 c[2] - 1 926 109 c[3] + 337 915 c[4] - 34 919 c[5] +
```

```
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 745 877 c[1] + 5 972 851 c[2] -
  1 926 077 c[3] + 337 915 c[4] - 34 919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 746 453 c[1] + 5 972 915 c[2] - 1 926 077 c[3] + 337 915 c[4] - 34 919 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 773 381 c[1] + 5 979 939 c[2] -
  1 926 669 c[3] + 337 931 c[4] - 34 919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 769 637 c[1] + 5 979 235 c[2] - 1 926 637 c[3] + 337 931 c[4] - 34 919 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 770 213 c[1] + 5 979 299 c[2] -
  1 926 637 c[3] + 337 931 c[4] - 34 919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 765 893 c[1] + 5 978 531 c[2] - 1 926 605 c[3] + 337 931 c[4] - 34 919 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 766 469 c[1] + 5 978 595 c[2] -
  1 926 605 c[3] + 337 931 c[4] - 34 919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 767 045 c[1] + 5 978 659 c[2] - 1 926 605 c[3] + 337 931 c[4] - 34 919 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 762 725 c[1] + 5 977 891 c[2] -
  1 926 573 c[3] + 337 931 c[4] - 34 919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 763 301 c[1] + 5 977 955 c[2] - 1 926 573 c[3] + 337 931 c[4] - 34 919 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 793 973 c[1] + 5 985 683 c[2] -
  1 927 197 c[3] + 337 947 c[4] - 34 919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 790 229 c[1] + 5 984 979 c[2] - 1 927 165 c[3] + 337 947 c[4] - 34 919 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 790 805 c[1] + 5 985 043 c[2] -
  1 927 165 c[3] + 337 947 c[4] - 34 919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 787 061 c[1] + 5 984 339 c[2] - 1 927 133 c[3] + 337 947 c[4] - 34 919 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 787 637 c[1] + 5 984 403 c[2] -
  1 927 133 c[3] + 337 947 c[4] - 34 919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 783 317 c[1] + 5 983 635 c[2] - 1 927 101 c[3] + 337 947 c[4] - 34 919 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 783 893 c[1] + 5 983 699 c[2] -
  1 927 101 c[3] + 337 947 c[4] - 34 919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 779 573 c[1] + 5 982 931 c[2] - 1 927 069 c[3] + 337 947 c[4] - 34 919 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 780 149 c[1] + 5 982 995 c[2] -
  1 927 069 c[3] + 337 947 c[4] - 34 919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 814 565 c[1] + 5 991 427 c[2] - 1 927 725 c[3] + 337 963 c[4] - 34 919 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 811 397 c[1] + 5 990 787 c[2] -
  1 927 693 c[3] + 337 963 c[4] - 34 919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 807 653 c[1] + 5 990 083 c[2] - 1 927 661 c[3] + 337 963 c[4] - 34 919 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 808 229 c[1] + 5 990 147 c[2] -
  1 927 661 c[3] + 337 963 c[4] - 34 919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 803 909 c[1] + 5 989 379 c[2] - 1 927 629 c[3] + 337 963 c[4] - 34 919 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 804 485 c[1] + 5 989 443 c[2] -
  1 927 629 c[3] + 337 963 c[4] - 34 919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 800 165 c[1] + 5 988 675 c[2] - 1 927 597 c[3] + 337 963 c[4] - 34 919 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 800 741 c[1] + 5 988 739 c[2] -
  1 927 597 c[3] + 337 963 c[4] - 34 919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 796 997 c[1] + 5 988 035 c[2] - 1 927 565 c[3] + 337 963 c[4] - 34 919 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 831 989 c[1] + 5 996 531 c[2] -
  1 928 221 c[3] + 337 979 c[4] - 34 919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 828 245 c[1] + 5 995 827 c[2] - 1 928 189 c[3] + 337 979 c[4] - 34 919 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 828 821 c[1] + 5 995 891 c[2] -
  1 928 189 c[3] + 337 979 c[4] - 34 919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
```

```
-7824501 c[1] + 5995123 c[2] - 1928157 c[3] + 337979 c[4] - 34919 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7825077 c[1] + 5995187 c[2] -
   1928157 c[3] + 337979 c[4] - 34919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7821333 c[1] + 5994483 c[2] - 1928125 c[3] + 337979 c[4] - 34919 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7817589 c[1] + 5993779 c[2] -
   1928093 c[3] + 337979 c[4] - 34919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7813845 c[1] + 5993075 c[2] - 1928061 c[3] + 337979 c[4] - 34919 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7848837 c[1] + 6001571 c[2] -
   1928717 c[3] + 337995 c[4] - 34919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7849413 c[1] + 6001635 c[2] - 1928717 c[3] + 337995 c[4] - 34919 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7845669 c[1] + 6000931 c[2] -
   1928685 c[3] + 337995 c[4] - 34919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7841925 c[1] + 6000227 c[2] - 1928653 c[3] + 337995 c[4] - 34919 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7838181 c[1] + 5999523 c[2] -
   1928621 c[3] + 337995 c[4] - 34919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7834437 c[1] + 5998819 c[2] - 1928589 c[3] + 337995 c[4] - 34919 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7862517 c[1] + 6005971 c[2] -
   1929181 c[3] + 338011 c[4] - 34919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7858773 c[1] + 6005267 c[2] - 1929149 c[3] + 338011 c[4] - 34919 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7855029 c[1] + 6004563 c[2] -
   1929117 c[3] + 338011 c[4] - 34919 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7618941 c[1] + 5926563 c[2] - 1919837 c[3] + 337547 c[4] - 34911 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7639533 c[1] + 5932307 c[2] -
   1920365 c[3] + 337563 c[4] - 34911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7635789 c[1] + 5931603 c[2] - 1920333 c[3] + 337563 c[4] - 34911 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7636365 c[1] + 5931667 c[2] -
   1920333 c[3] + 337563 c[4] - 34911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7633197 c[1] + 5931027 c[2] - 1920301 c[3] + 337563 c[4] - 34911 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7660125 c[1] + 5938051 c[2] -
   1920893 c[3] + 337579 c[4] - 34911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7656381 c[1] + 5937347 c[2] - 1920861 c[3] + 337579 c[4] - 34911 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7656957 c[1] + 5937411 c[2] -
   1920861 c[3] + 337579 c[4] - 34911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7653213 c[1] + 5936707 c[2] - 1920829 c[3] + 337579 c[4] - 34911 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7653789 c[1] + 5936771 c[2] -
   1920829 c[3] + 337579 c[4] - 34911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7650045 c[1] + 5936067 c[2] - 1920797 c[3] + 337579 c[4] - 34911 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7680717 c[1] + 5943795 c[2] -
   1921421 c[3] + 337595 c[4] - 34911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7677549 c[1] + 5943155 c[2] - 1921389 c[3] + 337595 c[4] - 34911 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7673805 c[1] + 5942451 c[2] -
   1921357 c[3] + 337595 c[4] - 34911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7674381 c[1] + 5942515 c[2] - 1921357 c[3] + 337595 c[4] - 34911 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7670061 c[1] + 5941747 c[2] -
   1921325 c[3] + 337595 c[4] - 34911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7670637 c[1] + 5941811 c[2] - 1921325 c[3] + 337595 c[4] - 34911 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7698141 c[1] + 5948899 c[2] -
```

```
  1 921 917 c[3] + 337 611 c[4] - 34 911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 694 397 c[1] + 5 948 195 c[2] - 1 921 885 c[3] + 337 611 c[4] - 34 911 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 694 973 c[1] + 5 948 259 c[2] -
  1 921 885 c[3] + 337 611 c[4] - 34 911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 690 653 c[1] + 5 947 491 c[2] - 1 921 853 c[3] + 337 611 c[4] - 34 911 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 691 229 c[1] + 5 947 555 c[2] -
  1 921 853 c[3] + 337 611 c[4] - 34 911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 687 485 c[1] + 5 946 851 c[2] - 1 921 821 c[3] + 337 611 c[4] - 34 911 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 718 733 c[1] + 5 954 643 c[2] -
  1 922 445 c[3] + 337 627 c[4] - 34 911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 714 989 c[1] + 5 953 939 c[2] - 1 922 413 c[3] + 337 627 c[4] - 34 911 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 715 565 c[1] + 5 954 003 c[2] -
  1 922 413 c[3] + 337 627 c[4] - 34 911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 711 245 c[1] + 5 953 235 c[2] - 1 922 381 c[3] + 337 627 c[4] - 34 911 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 711 821 c[1] + 5 953 299 c[2] -
  1 922 381 c[3] + 337 627 c[4] - 34 911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 708 077 c[1] + 5 952 595 c[2] - 1 922 349 c[3] + 337 627 c[4] - 34 911 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 704 333 c[1] + 5 951 891 c[2] -
  1 922 317 c[3] + 337 627 c[4] - 34 911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 739 325 c[1] + 5 960 387 c[2] - 1 922 973 c[3] + 337 643 c[4] - 34 911 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 735 581 c[1] + 5 959 683 c[2] -
  1 922 941 c[3] + 337 643 c[4] - 34 911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 736 157 c[1] + 5 959 747 c[2] - 1 922 941 c[3] + 337 643 c[4] - 34 911 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 732 413 c[1] + 5 959 043 c[2] -
  1 922 909 c[3] + 337 643 c[4] - 34 911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 728 669 c[1] + 5 958 339 c[2] - 1 922 877 c[3] + 337 643 c[4] - 34 911 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 724 925 c[1] + 5 957 635 c[2] -
  1 922 845 c[3] + 337 643 c[4] - 34 911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 721 181 c[1] + 5 956 931 c[2] - 1 922 813 c[3] + 337 643 c[4] - 34 911 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 759 917 c[1] + 5 966 131 c[2] -
  1 923 501 c[3] + 337 659 c[4] - 34 911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 756 749 c[1] + 5 965 491 c[2] - 1 923 469 c[3] + 337 659 c[4] - 34 911 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 753 005 c[1] + 5 964 787 c[2] -
  1 923 437 c[3] + 337 659 c[4] - 34 911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 749 261 c[1] + 5 964 083 c[2] - 1 923 405 c[3] + 337 659 c[4] - 34 911 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 745 517 c[1] + 5 963 379 c[2] -
  1 923 373 c[3] + 337 659 c[4] - 34 911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 777 341 c[1] + 5 971 235 c[2] - 1 923 997 c[3] + 337 675 c[4] - 34 911 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 773 597 c[1] + 5 970 531 c[2] -
  1 923 965 c[3] + 337 675 c[4] - 34 911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 769 853 c[1] + 5 969 827 c[2] - 1 923 933 c[3] + 337 675 c[4] - 34 911 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 790 445 c[1] + 5 975 571 c[2] -
  1 924 461 c[3] + 337 691 c[4] - 34 911 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 526 277 c[1] + 5 890 419 c[2] - 1 914 589 c[3] + 337 211 c[4] - 34 903 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 546 869 c[1] + 5 896 163 c[2] -
  1 915 117 c[3] + 337 227 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 543 701 c[1] + 5 895 523 c[2] - 1 915 085 c[3] + 337 227 c[4] - 34 903 c[5] +
```

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  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 540 533 c[1] + 5 894 883 c[2] -
  1 915 053 c[3] + 337 227 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 567 461 c[1] + 5 901 907 c[2] - 1 915 645 c[3] + 337 243 c[4] - 34 903 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 564 293 c[1] + 5 901 267 c[2] -
  1 915 613 c[3] + 337 243 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 560 549 c[1] + 5 900 563 c[2] - 1 915 581 c[3] + 337 243 c[4] - 34 903 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 561 125 c[1] + 5 900 627 c[2] -
  1 915 581 c[3] + 337 243 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 557 381 c[1] + 5 899 923 c[2] - 1 915 549 c[3] + 337 243 c[4] - 34 903 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 584 885 c[1] + 5 907 011 c[2] -
  1 916 141 c[3] + 337 259 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 581 141 c[1] + 5 906 307 c[2] - 1 916 109 c[3] + 337 259 c[4] - 34 903 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 581 717 c[1] + 5 906 371 c[2] -
  1 916 109 c[3] + 337 259 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 577 397 c[1] + 5 905 603 c[2] - 1 916 077 c[3] + 337 259 c[4] - 34 903 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 577 973 c[1] + 5 905 667 c[2] -
  1 916 077 c[3] + 337 259 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 574 229 c[1] + 5 904 963 c[2] - 1 916 045 c[3] + 337 259 c[4] - 34 903 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 605 477 c[1] + 5 912 755 c[2] -
  1 916 669 c[3] + 337 275 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 601 733 c[1] + 5 912 051 c[2] - 1 916 637 c[3] + 337 275 c[4] - 34 903 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 602 309 c[1] + 5 912 115 c[2] -
  1 916 637 c[3] + 337 275 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 598 565 c[1] + 5 911 411 c[2] - 1 916 605 c[3] + 337 275 c[4] - 34 903 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 594 821 c[1] + 5 910 707 c[2] -
  1 916 573 c[3] + 337 275 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 626 069 c[1] + 5 918 499 c[2] - 1 917 197 c[3] + 337 291 c[4] - 34 903 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 622 901 c[1] + 5 917 859 c[2] -
  1 917 165 c[3] + 337 291 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 619 157 c[1] + 5 917 155 c[2] - 1 917 133 c[3] + 337 291 c[4] - 34 903 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 615 413 c[1] + 5 916 451 c[2] -
  1 917 101 c[3] + 337 291 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 611 669 c[1] + 5 915 747 c[2] - 1 917 069 c[3] + 337 291 c[4] - 34 903 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 646 661 c[1] + 5 924 243 c[2] -
  1 917 725 c[3] + 337 307 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 643 493 c[1] + 5 923 603 c[2] - 1 917 693 c[3] + 337 307 c[4] - 34 903 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 639 749 c[1] + 5 922 899 c[2] -
  1 917 661 c[3] + 337 307 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 636 005 c[1] + 5 922 195 c[2] - 1 917 629 c[3] + 337 307 c[4] - 34 903 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 632 261 c[1] + 5 921 491 c[2] -
  1 917 597 c[3] + 337 307 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 667 957 c[1] + 5 930 051 c[2] - 1 918 253 c[3] + 337 323 c[4] - 34 903 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 664 085 c[1] + 5 929 347 c[2] -
  1 918 221 c[3] + 337 323 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 660 341 c[1] + 5 928 643 c[2] - 1 918 189 c[3] + 337 323 c[4] - 34 903 c[5] +
  2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 656 597 c[1] + 5 927 939 c[2] -
  1 918 157 c[3] + 337 323 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
```

```
-7 688 549 c[1] + 5 935 795 c[2] - 1 918 781 c[3] + 337 339 c[4] - 34 903 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 684 677 c[1] + 5 935 091 c[2] -
   1 918 749 c[3] + 337 339 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 680 933 c[1] + 5 934 387 c[2] - 1 918 717 c[3] + 337 339 c[4] - 34 903 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 705 269 c[1] + 5 940 835 c[2] -
   1 919 277 c[3] + 337 355 c[4] - 34 903 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 433 613 c[1] + 5 854 275 c[2] - 1 909 341 c[3] + 336 875 c[4] - 34 895 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 451 037 c[1] + 5 859 379 c[2] -
   1 909 837 c[3] + 336 891 c[4] - 34 895 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 447 869 c[1] + 5 858 739 c[2] - 1 909 805 c[3] + 336 891 c[4] - 34 895 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 471 629 c[1] + 5 865 123 c[2] -
   1 910 365 c[3] + 336 907 c[4] - 34 895 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 467 885 c[1] + 5 864 419 c[2] - 1 910 333 c[3] + 336 907 c[4] - 34 895 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 468 461 c[1] + 5 864 483 c[2] -
   1 910 333 c[3] + 336 907 c[4] - 34 895 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 464 717 c[1] + 5 863 779 c[2] - 1 910 301 c[3] + 336 907 c[4] - 34 895 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 492 221 c[1] + 5 870 867 c[2] -
   1 910 893 c[3] + 336 923 c[4] - 34 895 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 488 477 c[1] + 5 870 163 c[2] - 1 910 861 c[3] + 336 923 c[4] - 34 895 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 489 053 c[1] + 5 870 227 c[2] -
   1 910 861 c[3] + 336 923 c[4] - 34 895 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 485 309 c[1] + 5 869 523 c[2] - 1 910 829 c[3] + 336 923 c[4] - 34 895 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 481 565 c[1] + 5 868 819 c[2] -
   1 910 797 c[3] + 336 923 c[4] - 34 895 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 512 813 c[1] + 5 876 611 c[2] - 1 911 421 c[3] + 336 939 c[4] - 34 895 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 509 645 c[1] + 5 875 971 c[2] -
   1 911 389 c[3] + 336 939 c[4] - 34 895 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 505 901 c[1] + 5 875 267 c[2] - 1 911 357 c[3] + 336 939 c[4] - 34 895 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 502 157 c[1] + 5 874 563 c[2] -
   1 911 325 c[3] + 336 939 c[4] - 34 895 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 498 413 c[1] + 5 873 859 c[2] - 1 911 293 c[3] + 336 939 c[4] - 34 895 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 530 237 c[1] + 5 881 715 c[2] -
   1 911 917 c[3] + 336 955 c[4] - 34 895 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 526 493 c[1] + 5 881 011 c[2] - 1 911 885 c[3] + 336 955 c[4] - 34 895 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 522 749 c[1] + 5 880 307 c[2] -
   1 911 853 c[3] + 336 955 c[4] - 34 895 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 550 829 c[1] + 5 887 459 c[2] - 1 912 445 c[3] + 336 971 c[4] - 34 895 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 547 085 c[1] + 5 886 755 c[2] -
   1 912 413 c[3] + 336 971 c[4] - 34 895 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 571 421 c[1] + 5 893 203 c[2] - 1 912 973 c[3] + 336 987 c[4] - 34 895 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 592 013 c[1] + 5 898 947 c[2] -
   1 913 501 c[3] + 337 003 c[4] - 34 895 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 358 373 c[1] + 5 823 235 c[2] - 1 904 589 c[3] + 336 555 c[4] - 34 887 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 355 205 c[1] + 5 822 595 c[2] -
   1 904 557 c[3] + 336 555 c[4] - 34 887 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
-7 378 965 c[1] + 5 828 979 c[2] - 1 905 117 c[3] + 336 571 c[4] - 34 887 c[5] +
   2129 c[6] - 71 c[7] + c[8] ≥ 0 && -7 375 797 c[1] + 5 828 339 c[2] -
```

```
    1 905 085 c[3] + 336 571 c[4] - 34 887 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
  - 7 372 053 c[1] + 5 827 635 c[2] - 1 905 053 c[3] + 336 571 c[4] - 34 887 c[5] +
    2129 c[6] - 71 c[7] + c[8] ≥ 0 && - 7 396 389 c[1] + 5 834 083 c[2] -
    1 905 613 c[3] + 336 587 c[4] - 34 887 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
  - 7 392 645 c[1] + 5 833 379 c[2] - 1 905 581 c[3] + 336 587 c[4] - 34 887 c[5] +
    2129 c[6] - 71 c[7] + c[8] ≥ 0 && - 7 388 901 c[1] + 5 832 675 c[2] -
    1 905 549 c[3] + 336 587 c[4] - 34 887 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
  - 7 416 981 c[1] + 5 839 827 c[2] - 1 906 141 c[3] + 336 603 c[4] - 34 887 c[5] +
    2129 c[6] - 71 c[7] + c[8] ≥ 0 && - 7 413 237 c[1] + 5 839 123 c[2] -
    1 906 109 c[3] + 336 603 c[4] - 34 887 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
  - 7 437 573 c[1] + 5 845 571 c[2] - 1 906 669 c[3] + 336 619 c[4] - 34 887 c[5] +
    2129 c[6] - 71 c[7] + c[8] ≥ 0 && - 7 433 829 c[1] + 5 844 867 c[2] -
    1 906 637 c[3] + 336 619 c[4] - 34 887 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
  - 7 458 165 c[1] + 5 851 315 c[2] - 1 907 197 c[3] + 336 635 c[4] - 34 887 c[5] +
    2129 c[6] - 71 c[7] + c[8] ≥ 0 && - 7 262 541 c[1] + 5 786 451 c[2] -
    1 899 309 c[3] + 336 219 c[4] - 34 879 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
  - 7 283 133 c[1] + 5 792 195 c[2] - 1 899 837 c[3] + 336 235 c[4] - 34 879 c[5] +
    2129 c[6] - 71 c[7] + c[8] ≥ 0 && - 7 279 389 c[1] + 5 791 491 c[2] -
    1 899 805 c[3] + 336 235 c[4] - 34 879 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
  - 7 303 725 c[1] + 5 797 939 c[2] - 1 900 365 c[3] + 336 251 c[4] - 34 879 c[5] +
    2129 c[6] - 71 c[7] + c[8] ≥ 0 && - 7 299 981 c[1] + 5 797 235 c[2] -
    1 900 333 c[3] + 336 251 c[4] - 34 879 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
  - 7 324 317 c[1] + 5 803 683 c[2] - 1 900 893 c[3] + 336 267 c[4] - 34 879 c[5] +
    2129 c[6] - 71 c[7] + c[8] ≥ 0 && - 7 169 877 c[1] + 5 750 307 c[2] -
    1 894 061 c[3] + 335 883 c[4] - 34 871 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
  - 7 190 469 c[1] + 5 756 051 c[2] - 1 894 589 c[3] + 335 899 c[4] - 34 871 c[5] +
    2129 c[6] - 71 c[7] + c[8] ≥ 0 && - 7 211 061 c[1] + 5 761 795 c[2] -
    1 895 117 c[3] + 335 915 c[4] - 34 871 c[5] + 2129 c[6] - 71 c[7] + c[8] ≥ 0 &&
  - 7 077 213 c[1] + 5 714 163 c[2] - 1 888 813 c[3] + 335 547 c[4] - 34 863 c[5] +
    2129 c[6] - 71 c[7] + c[8] ≥ 0, Array[c, 8], Integers]
```

Out[ ]= {{c[1] → 6 545 789, c[2] → 64 522 780, c[3] → 649 903 361, c[4] → 6 707 563 763,
c[5] → 71 075 114 863, c[6] → 0, c[7] → 0, c[8] → 1 132 367 732 240 930}}

In[ ]:=
```
Flatten[Array[c, 8] /.
  {c[1] → 6 545 789, c[2] → 64 522 780, c[3] → 649 903 361, c[4] → 6 707 563 763,
   c[5] → 71 075 114 863, c[6] → 0, c[7] → 0, c[8] → 1 132 367 732 240 930}]
```

Out[ ]= {6 545 789, 64 522 780, 649 903 361,
6 707 563 763, 71 075 114 863, 0, 0, 1 132 367 732 240 930}

In[ ]:=
```
GCD[6 545 789, 64 522 780, 649 903 361,
 6 707 563 763, 71 075 114 863, 0, 0, 1 132 367 732 240 930]
```

Out[ ]= 1

```
In[•]:= {6 545 789, 64 522 780, 649 903 361, 6 707 563 763, 71 075 114 863,
          0, 0, 1 132 367 732 240 930}.Transpose[listinterlacingf1coeffmat]
        {6 545 789, 64 522 780, 649 903 361,
          6 707 563 763, 71 075 114 863, 0, 0, 1 132 367 732 240 930}.
         {-465 890 207, 355 483 889, -114 032 079, 19 958 761, -2 060 661, 125 611, -4189, 59}
```

```
Out[•]= {5 064 400, 364 147 856, 244 452 304, 723 185 488, 244 406 480, 603 489 936, 124 710 928,
         483 794 384, 483 804 416, 364 108 864, 723 192 320, 244 413 312, 603 496 768,
         124 717 760, 483 801 216, 5 022 208, 364 105 664, 364 115 696, 244 420 144, 603 503 600,
         124 724 592, 483 808 048, 5 029 040, 364 112 496, 244 416 944, 124 731 424, 364 119 328,
         244 423 776, 124 728 224, 124 735 056, 723 129 632, 483 748 560, 364 053 008,
         723 136 464, 244 367 488, 124 671 936, 483 755 392, 4 976 384, 364 059 840,
         723 143 296, 244 364 288, 603 447 744, 244 374 320, 124 678 768, 483 762 224,
         364 066 672, 723 150 128, 244 371 120, 603 454 576, 124 675 568, 483 759 024,
         244 381 152, 483 769 056, 364 073 504, 723 156 960, 244 377 952, 603 461 408,
         124 682 400, 483 765 856, 364 070 304, 483 775 888, 364 080 336, 723 163 792,
         244 384 784, 603 468 240, 483 772 688, 364 077 136, 244 381 584, 364 087 168,
         723 170 624, 603 475 072, 483 779 520, 364 083 968, 244 388 416, 483 786 352,
         364 090 800, 244 395 248, 244 311 632, 244 318 464, 124 622 912, 483 706 368,
         723 094 272, 244 325 296, 124 629 744, 483 713 200, 364 017 648, 723 101 104,
         603 405 552, 244 332 128, 483 720 032, 364 024 480, 723 107 936, 244 328 928,
         603 412 384, 483 726 864, 364 031 312, 723 114 768, 244 335 760, 603 419 216,
         483 723 664, 483 733 696, 364 038 144, 723 121 600, 244 342 592, 603 426 048,
         483 730 496, 364 034 944, 483 740 528, 364 044 976, 723 128 432, 603 432 880,
         483 737 328, 364 041 776, 244 346 224, 483 747 360, 723 135 264, 603 439 712,
         483 744 160, 364 048 608, 723 142 096, 603 446 544, 483 750 992, 483 757 824,
         244 276 272, 244 283 104, 483 671 008, 723 058 912, 244 289 936, 483 677 840,
         363 982 288, 723 065 744, 603 370 192, 483 684 672, 363 989 120, 723 072 576,
         244 293 568, 603 377 024, 483 681 472, 483 691 504, 363 995 952, 723 079 408,
         603 383 856, 483 688 304, 483 698 336, 723 086 240, 603 390 688, 483 695 136,
         363 999 584, 483 705 168, 723 093 072, 603 397 520, 483 701 968, 364 006 416,
         4 934 464, 723 099 904, 603 404 352, 483 708 800, 4 941 296, 723 106 736, 603 411 184,
         723 113 568, 244 240 912, 483 635 648, 723 023 552, 483 642 480, 363 946 928,
         723 030 384, 603 334 832, 483 649 312, 363 953 760, 723 037 216, 603 341 664,
         483 646 112, 483 656 144, 723 044 048, 603 348 496, 483 652 944, 363 957 392,
         723 050 880, 603 355 328, 483 659 776, 723 057 712, 603 362 160, 723 064 544,
         723 071 376, 483 600 288, 722 988 192, 483 607 120, 722 995 024, 603 299 472,
         723 001 856, 603 306 304, 483 610 752, 723 008 688, 603 313 136, 723 015 520,
         603 319 968, 723 022 352, 722 952 832, 722 959 664, 603 264 112, 722 966 496,
         603 270 944, 722 973 328, 722 917 472, 722 924 304, 722 931 136, 722 882 112}
```

```
Out[•]= -661 126 352
```

```
In[•]:= Reverse[{6 545 789, 64 522 780, 649 903 361,
          6 707 563 763, 71 075 114 863, 0, 0, 1 132 367 732 240 930}]
```

```
Out[•]= {1 132 367 732 240 930, 0, 0, 71 075 114 863,
         6 707 563 763, 649 903 361, 64 522 780, 6 545 789}
```

```
In[ ]:= i = 5;
        last5[[i]]
        interlacingpolylast5[[i]] =
          {(-13 + x)^5 (-11 + x)^9 (5 + x)^41 (8886 - 3871 x + 609 x^2 - 41 x^3 + x^4),
           (-13 + x)^5 (-11 + x)^9 (5 + x)^41 (8834 - 3867 x + 609 x^2 - 41 x^3 + x^4),
           (-13 + x)^6 (-11 + x)^9 (5 + x)^41 (-682 + 245 x - 28 x^2 + x^3),
           (-13 + x)^5 (-11 + x)^9 (5 + x)^41 (8678 - 3855 x + 609 x^2 - 41 x^3 + x^4),
           (-13 + x)^6 (-11 + x)^9 (5 + x)^41 (-670 + 245 x - 28 x^2 + x^3),
           (-13 + x)^5 (-11 + x)^9 (5 + x)^41 (8626 - 3851 x + 609 x^2 - 41 x^3 + x^4),
           (-13 + x)^6 (-11 + x)^9 (-9 + x) (5 + x)^41 (74 - 19 x + x^2),
           (-14 + x) (-13 + x)^5 (-11 + x)^11 (-5 + x) (5 + x)^41,
           (-13 + x)^6 (-11 + x)^9 (5 + x)^41 (-654 + 245 x - 28 x^2 + x^3),
           (-13 + x)^7 (-11 + x)^9 (-10 + x) (-5 + x) (5 + x)^41,
           (-13 + x)^6 (-11 + x)^10 (5 + x)^41 (58 - 17 x + x^2)};
        Coeffmatlast5[[i]] =
          CoefficientList[Factor[interlacingpolylast5[[i]]] / mu[last5[[i]]], x];
Out[ ]= (-13 + x)^6 (-11 + x)^10 (5 + x)^42 (109 - 22 x + x^2)

In[ ]:= Coeffmatlast5[[i]] // MatrixForm
Out[ ]//MatrixForm=
        ( 8886  -3871  609  -41  1 )
        ( 8834  -3867  609  -41  1 )
        ( 8866  -3867  609  -41  1 )
        ( 8678  -3855  609  -41  1 )
        ( 8710  -3855  609  -41  1 )
        ( 8626  -3851  609  -41  1 )
        ( 8658  -3851  609  -41  1 )
        ( 8470  -3839  609  -41  1 )
        ( 8502  -3839  609  -41  1 )
        ( 8450  -3835  609  -41  1 )
        ( 8294  -3823  609  -41  1 )

In[ ]:= gveclast5[[i]] = CoefficientList[D[last5[[i]], x] / mu[last5[[i]]] // Factor, x]
Out[ ]= {532 104, -232 164, 36 540, -2460, 60}
```

```
In[ ]:= Array[c, 5].Transpose[Coeffmatlast5[[i]]]
```

```
Out[ ]= {8886 c[1] - 3871 c[2] + 609 c[3] - 41 c[4] + c[5],
 8834 c[1] - 3867 c[2] + 609 c[3] - 41 c[4] + c[5],
 8866 c[1] - 3867 c[2] + 609 c[3] - 41 c[4] + c[5],
 8678 c[1] - 3855 c[2] + 609 c[3] - 41 c[4] + c[5],
 8710 c[1] - 3855 c[2] + 609 c[3] - 41 c[4] + c[5],
 8626 c[1] - 3851 c[2] + 609 c[3] - 41 c[4] + c[5],
 8658 c[1] - 3851 c[2] + 609 c[3] - 41 c[4] + c[5],
 8470 c[1] - 3839 c[2] + 609 c[3] - 41 c[4] + c[5],
 8502 c[1] - 3839 c[2] + 609 c[3] - 41 c[4] + c[5],
 8450 c[1] - 3835 c[2] + 609 c[3] - 41 c[4] + c[5],
 8294 c[1] - 3823 c[2] + 609 c[3] - 41 c[4] + c[5]}
```

```
In[ ]:= Array[c, 5].gveclast5[[i]]
```

```
Out[ ]= 532 104 c[1] - 232 164 c[2] + 36 540 c[3] - 2460 c[4] + 60 c[5]
```

```
In[ ]:= i
Flatten[Array[c, 5] /.
  FindInstance[532 104 c[1] - 232 164 c[2] + 36 540 c[3] - 2460 c[4] + 60 c[5] < 0 &&
    8886 c[1] - 3871 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
    8834 c[1] - 3867 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
    8866 c[1] - 3867 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
    8678 c[1] - 3855 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
    8710 c[1] - 3855 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
    8626 c[1] - 3851 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
    8658 c[1] - 3851 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
    8470 c[1] - 3839 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
    8502 c[1] - 3839 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
    8450 c[1] - 3835 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
    8294 c[1] - 3823 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0, Array[c, 5], Integers]]
```

```
Out[ ]= 5
```

```
Out[ ]= {c[1], c[2], c[3], c[4], c[5]}
```

```
In[•]:= i
        Flatten[Array[c, 5] /.
          FindInstance[532 104 c[1] - 232 164 c[2] + 36 540 c[3] - 2460 c[4] + 60 c[5] < 0 &&
            8886 c[1] - 3871 c[2] + 609 c[3] - 41 c[4] + c[5] < 0 &&
            8834 c[1] - 3867 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
            8866 c[1] - 3867 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
            8678 c[1] - 3855 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
            8710 c[1] - 3855 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
            8626 c[1] - 3851 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
            8658 c[1] - 3851 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
            8470 c[1] - 3839 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
            8502 c[1] - 3839 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
            8450 c[1] - 3835 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0 &&
            8294 c[1] - 3823 c[2] + 609 c[3] - 41 c[4] + c[5] ≥ 0, Array[c, 5], Integers]]
Out[•]= 5

Out[•]= {-5577, 0, 0, 0, 49 456 281}

In[•]:= GCD[-5577, 0, 0, 0, 49 456 281]
Out[•]= 3

In[•]:= {-5577, 0, 0, 0, 49 456 281} / 3
Out[•]= {-1859, 0, 0, 0, 16 485 427}

In[•]:= {-1859, 0, 0, 0, 16 485 427}.Transpose[Coeffmatlast5[[5]]]
        {-1859, 0, 0, 0, 16 485 427}.gveclast5[[5]]
Out[•]= {-33 647, 63 021, 3533, 353 025, 293 537,
         449 693, 390 205, 739 697, 680 209, 776 877, 1 066 881}

Out[•]= -55 716

In[•]:= Reverse[{-1859, 0, 0, 0, 16 485 427}]
Out[•]= {16 485 427, 0, 0, 0, -1859}
```