

```

f1 := -55/4*c[1]+25*c[3]+8*c[5]-475/54*c[8]+145/9*c[9]-995/54*c[10]+70/3*c[11]
+1700/81*c[12]-10/81*c[13]-41/9*c[14]-215/18*c[15]-425/18*c[16]+425/36*c[17]+
35/9*c[18]-59/9*c[19]+92/9*c[20]+75/32*c[21]+85/48*c[22]+33/16*c[23]+139/64*c[
24]+65/64*c[25]+75/32*c[26]-221/64*c[27]+1/24*c[28]-65/12*c[42]+35/4*c[43]+95/
6*c[44]+53/4*c[45]+10/3*c[46]+13/4*c[47]+2*c[48]-9/2*c[49]-3/2*c[50];
f2 := -33/2*c[1]-150*c[3]-55/3*c[8]+26*c[9]-47/3*c[10]+24*c[11]+64/9*c[12]-116
/9*c[13]-58/9*c[14]-95/9*c[15]-125/9*c[16]+125/18*c[17]-170/9*c[18]-22/9*c[19]
+16/9*c[20]+67/16*c[21]+47/8*c[22]+117/40*c[23]+767/160*c[24]-71/32*c[25]-129/
80*c[26]-73/160*c[27]-33/20*c[28]-11/6*c[42]-7/2*c[43]+23/3*c[44]+23/2*c[45]+
14/3*c[46]+7/2*c[47]+4*c[48]-9*c[49]-3*c[50];
f3 := 36/7*c[2]-6*c[6]+56/15*c[14]-128/15*c[15]-10/3*c[16]+457/15*c[17]+904/15
*c[18]-292/15*c[19]+64/15*c[20]+8/3*c[29]-6*c[30]-40/3*c[31]-4*c[32]-92/3*c[33
]-85/3*c[34]-34/3*c[35]+9*c[36]-12*c[37]-c[52]-14/5*c[53]-3/20*c[54]-4/5*c[55]
-c[56]-9/5*c[57]-53/20*c[58];
f4 := 24*c[2]-48*c[6]+448/15*c[14]+56/15*c[15]-80/3*c[16]-664/15*c[17]-1408/15
*c[18]+544/15*c[19]+512/15*c[20]+320/3*c[29]-48*c[30]-688/3*c[31]-32*c[32]-\
1136/3*c[33]-1120/3*c[34]-448/3*c[35]+104*c[36]-96*c[37]+12*c[52]-72/5*c[53]+
84/5*c[54]-32/5*c[55]-8*c[56]-72/5*c[57]-76/5*c[58];
f5 := -55*c[1]+250/7*c[2]+400*c[4]-44*c[5]-65/4*c[21]-55/6*c[22]-3/2*c[23]-9/8
*c[24]+5/8*c[25]-73/4*c[26]+15/8*c[27]+29/3*c[28]-320/3*c[29]+140*c[30]+1120/3
*c[31]+60*c[32]+1688/3*c[33]+1750/3*c[34]+592/3*c[35]-154*c[36]+200*c[37]-20*c
[38]+50*c[39]-6*c[40]-52338/185*c[59]+42318/185*c[60]+178398/185*c[61]+47304/
37*c[62]+112374/185*c[63]+553872/185*c[64]-71858/185*c[65]-69110/111*c[66]-\
4964/111*c[67]-18896/37*c[68]-48102/185*c[69]-99344/111*c[70]+25360/111*c[71]+
3016/555*c[72]-2682/37*c[73]-16810/37*c[74]+10950/37*c[75]-6861/370*c[76]+9994
/185*c[77]+6030/37*c[78]-7282/185*c[79]+10672/37*c[80]+1974/37*c[81];
f6 := -375/14*c[2]-300*c[4]+27*c[5]+105/16*c[21]+85/8*c[22]+27/8*c[23]+369/32*
c[24]+435/32*c[25]-15/16*c[26]+153/32*c[27]+1/4*c[28]+280/3*c[29]-60*c[30]-590
/3*c[31]-30*c[32]-964/3*c[33]-920/3*c[34]-341/3*c[35]+77*c[36]-90*c[37]+c[38]-\
45/2*c[39]+3/2*c[40]-134361/1480*c[59]+103371/1480*c[60]+402201/1480*c[61]+
49479/148*c[62]+31536/185*c[63]+159153/185*c[64]-164601/1480*c[65]-25755/148*
c[66]-3879/296*c[67]-13023/74*c[68]-24141/370*c[69]-9301/37*c[70]+4205/74*c[71]
+1288/185*c[72]-1929/74*c[73]-24735/148*c[74]+30975/296*c[75]-531/1480*c[76]+
12759/740*c[77]+16875/296*c[78]+1299/370*c[79]+6981/74*c[80]+4623/296*c[81];
f7 := 210*c[4]+112/5*c[38]-42*c[39]+42/5*c[40]-19/2*c[82]-5*c[83]+5/2*c[84]-12
*c[85];
f8 := -165/2*c[7]+6*c[15]+30*c[16]-24*c[17]-24*c[18]+16*c[19]+24*c[20]-45/2*c[
41]-175/24*c[42]-455/8*c[43]-245/3*c[44]-623/8*c[45]-95/12*c[46]-67/8*c[47]-4*
c[48]+15/2*c[49]-2*c[50]-5*c[51];
f9 := -135/2*c[7]+70/3*c[8]-20*c[9]+50/3*c[10]-40/9*c[12]+260/9*c[13]+16/9*c[
14]+56/9*c[15]-40/9*c[16]+11/9*c[17]-400/9*c[18]+208/9*c[19]+35/9*c[20]+128/3*
c[29]+50/3*c[30]-4/3*c[31]+25*c[32]+4*c[33]+35*c[34]+8*c[35]-100/3*c[36]+30*c[
37]+575/24*c[42]-125/8*c[43]+305/6*c[44]+349/8*c[45]+445/12*c[46]+305/8*c[47]+
20*c[48]+3/2*c[49]-3/2*c[50]-25*c[52]+49/3*c[53]-15*c[54]+28/3*c[55]+35/6*c[56]
+49/3*c[57]+121/6*c[58]+85823/370*c[59]-145131/740*c[60]-603771/740*c[61]-\
154733/148*c[62]-93927/185*c[63]-470076/185*c[64]+725113/2220*c[65]+690125/
1332*c[66]+5295/148*c[67]+51284/111*c[68]+76407/370*c[69]+249508/333*c[70]-\
61535/333*c[71]-2846/185*c[72]+14521/222*c[73]+95015/222*c[74]-29375/111*c[75]
+1484/185*c[76]-49777/1110*c[77]-64855/444*c[78]+18701/1110*c[79]-28403/111*c[
80]-1542/37*c[81];
f10 := -45/2*c[7]-10*c[8]+15/2*c[9]-5*c[10]-50/3*c[12]-65/3*c[13]+13/3*c[14]-\
35/6*c[15]-65/6*c[16]+65/12*c[17]+89/3*c[18]-5/3*c[19]+47/3*c[20]-40*c[29]+20*
c[30]+80*c[31]+10*c[32]+136*c[33]+130*c[34]+52*c[35]-34*c[36]+30*c[37]-5/8*c[
42]-75/8*c[43]-25*c[44]-93/8*c[45]-25/4*c[46]-33/8*c[47]-6*c[48]-25/3*c[52]-13
/3*c[53]-5*c[54]-5/3*c[57]-5559/148*c[59]+2227/74*c[60]+8943/74*c[61]+22925/
148*c[62]+2727/37*c[63]+13774/37*c[64]-1745/37*c[65]-33305/444*c[66]-363/74*c[
67]-2600/37*c[68]-2115/74*c[69]-11962/111*c[70]+2795/111*c[71]+102/37*c[72]-\
394/37*c[73]-5915/74*c[74]+5675/148*c[75]-159/148*c[76]+715/74*c[77]+1835/74*
c[78]-8/37*c[79]+1415/37*c[80]+945/148*c[81];
f11 := 35*c[7]+20/27*c[8]-425/72*c[9]-275/27*c[10]-10/3*c[11]+2795/162*c[12]+
5725/324*c[13]+4/3*c[14]-5/6*c[15]+50/3*c[16]-25/3*c[17]-40/3*c[18]-29/3*c[19]
-73/3*c[20]+6*c[29]-35/2*c[30]-109/3*c[31]-155/12*c[32]-60*c[33]-265/4*c[34]-\
24*c[35]+26*c[36]-15*c[37]-45/4*c[42]+75/4*c[43]-21/4*c[45]-25/2*c[46]-45/4*c[
47]-15/2*c[48]+325/12*c[52]-21/2*c[53]+175/8*c[54]-65/9*c[55]-55/9*c[56]-11*c[
57]-141/8*c[58]-69039/740*c[59]+55039/740*c[60]+112977/370*c[61]+28361/74*c[62
]+137667/740*c[63]+177054/185*c[64]-45987/370*c[65]-21500/111*c[66]-1588/111*c
[67]-6832/37*c[68]-28673/370*c[69]-10502/37*c[70]+10165/148*c[71]+7159/1110*c[
72]-3849/148*c[73]-5840/37*c[74]+16025/148*c[75]-1287/370*c[76]+6471/370*c[77]

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+4145/74*c[78]-5231/740*c[79]+3729/37*c[80]+2527/148*c[81]+2*c[86]+c[87]+13/2*
c[88]+3*c[89];
f12 := -60*c[7]+170/9*c[8]-10/3*c[9]-110/9*c[10]-10*c[11]+280/27*c[12]+460/27*
c[13]-14/3*c[14]+5/3*c[15]+35/3*c[16]-35/6*c[17]-172/3*c[18]+130/3*c[19]+74/3*
c[20]+224/3*c[29]-232/3*c[31]+10*c[32]-356/3*c[33]-280/3*c[34]-112/3*c[35]+6*c
[36]+55/4*c[42]-75/4*c[43]-35*c[44]-93/4*c[45]+5/2*c[46]+39/4*c[47]-12*c[48]+9
*c[49]+3*c[50]-25/2*c[52]+9*c[53]-15/4*c[54]+8*c[55]+5*c[56]+14*c[57]+37/4*c[
58]+130779/740*c[59]-28566/185*c[60]-465939/740*c[61]-119577/148*c[62]-144261/
370*c[63]-361464/185*c[64]+184279/740*c[65]+58765/148*c[66]+3092/111*c[67]+
13152/37*c[68]+29274/185*c[69]+63766/111*c[70]-15500/111*c[71]-6967/555*c[72]+
3641/74*c[73]+11475/37*c[74]-32125/148*c[75]+4923/1480*c[76]-6563/185*c[77]-\
15785/148*c[78]+1104/185*c[79]-7049/37*c[80]-4437/148*c[81]-2*c[86]-5*c[87]-7*
c[88]-4*c[89];
f13 := 30*c[7]-20*c[8]-30*c[9]+20*c[10]-40*c[12]-80/3*c[13]+184/9*c[14]+32/9*c
[15]+170/9*c[16]-283/9*c[17]+80/9*c[18]-236/9*c[19]-394/9*c[20]-416/3*c[29]+
100/3*c[30]+688/3*c[31]+10*c[32]+1144/3*c[33]+1070/3*c[34]+416/3*c[35]-232/3*c
[36]+100*c[37]-115/6*c[42]+115/2*c[43]+355/3*c[44]+92*c[45]+40/3*c[46]+10*c[47
]+20*c[48]-12*c[49]-3*c[50]+10*c[51]+125/3*c[52]-32*c[53]+75/2*c[54]-152/9*c[
55]-175/9*c[56]-110/3*c[57]-75/2*c[58]-102149/370*c[59]+86399/370*c[60]+172512
/185*c[61]+44056/37*c[62]+104931/185*c[63]+535808/185*c[64]-203986/555*c[65]-\
193595/333*c[66]-3085/74*c[67]-60842/111*c[68]-42668/185*c[69]-280912/333*c[70
]+67220/333*c[71]+3568/185*c[72]-8033/111*c[73]-54220/111*c[74]+75475/222*c[75
]-1129/370*c[76]+35858/555*c[77]+18730/111*c[78]-2239/555*c[79]+33764/111*c[80
]+3717/74*c[81]+12*c[86]+16*c[87]+44*c[88]+18*c[89];
f14 := 105/2*c[7]+10/3*c[8]+65/2*c[9]-25/3*c[10]+290/9*c[12]-85/9*c[13]-65/3*c
[14]+49/6*c[15]+5/3*c[16]+2/3*c[17]-67/3*c[18]+64/3*c[19]+80/3*c[20]+304/3*c[
29]-50*c[30]-692/3*c[31]-35*c[32]-1192/3*c[33]-1190/3*c[34]-458/3*c[35]+109*c[
36]-120*c[37]-5/8*c[42]-75/8*c[43]-70*c[44]-561/8*c[45]-85/4*c[46]-213/8*c[47]
-15*c[48]+9*c[49]+6*c[50]-175/12*c[52]+127/6*c[53]-175/8*c[54]+28/3*c[55]+35/3
*c[56]+58/3*c[57]+161/8*c[58]+262791/2960*c[59]-193631/2960*c[60]-676191/2960*
c[61]-10123/37*c[62]-91287/740*c[63]-261953/370*c[64]+262511/2960*c[65]+4935/
37*c[66]+19345/1776*c[67]+24543/148*c[68]+9384/185*c[69]+44599/222*c[70]-18265
/444*c[71]-4307/555*c[72]+1635/74*c[73]+43395/296*c[74]-65825/592*c[75]-204/
185*c[76]-41179/1480*c[77]-29305/592*c[78]-3417/370*c[79]-12391/148*c[80]-8793
/592*c[81]-10*c[86]-10*c[87]-32*c[88]-14*c[89];
f15 := -40*c[7]-10/27*c[8]+275/36*c[9]-470/27*c[10]+50/3*c[11]-125/81*c[12]-\
655/162*c[13]+52/3*c[14]+8/3*c[15]-5/6*c[16]-13/12*c[17]-16/3*c[18]+43/3*c[19]
+5/3*c[20]-148/3*c[29]+35*c[30]+394/3*c[31]+155/6*c[32]+652/3*c[33]+1405/6*c[
34]+266/3*c[35]-67*c[36]+60*c[37]+10*c[42]-5*c[44]+15/2*c[45]+5*c[46]+15/2*c[
47]-6*c[48]+9*c[49]-125/12*c[52]-3/2*c[53]-5/8*c[54]+10/9*c[55]+5/9*c[56]+c[57
]+11/8*c[58]+158157/2960*c[59]-158147/2960*c[60]-616797/2960*c[61]-80293/296*c
[62]-47667/370*c[63]-239121/370*c[64]+237677/2960*c[65]+111665/888*c[66]+4675/
592*c[67]+17201/148*c[68]+37697/740*c[69]+40831/222*c[70]-20305/444*c[71]-763/
185*c[72]+1009/74*c[73]+28085/296*c[74]-37875/592*c[75]-1269/1480*c[76]-19253/
1480*c[77]-19215/592*c[78]-152/185*c[79]-9757/148*c[80]-4691/592*c[81]-6*c[86]
-c[87]-8*c[88]-c[89];
f16 := 10/3*c[8]-5*c[9]+20/3*c[10]+110/9*c[12]+140/9*c[13]+13/16*c[21]+57/8*c[
22]+31/40*c[23]+681/160*c[24]+351/32*c[25]+9/80*c[26]-207/160*c[27]-103/20*c[
28]+4*c[39]-274869/1850*c[59]+221299/1850*c[60]+877029/1850*c[61]+113011/185*c
[62]+270081/925*c[63]+1368728/925*c[64]-349109/1850*c[65]-33161/111*c[66]-\
22517/1110*c[67]-51864/185*c[68]-109468/925*c[69]-239416/555*c[70]+11170/111*c
[71]+30734/2775*c[72]-6858/185*c[73]-9565/37*c[74]+12475/74*c[75]-4209/1850*c[
76]+31161/925*c[77]+6441/74*c[78]-3623/925*c[79]+28518/185*c[80]+8907/370*c[81
]-35/3*c[82]+10/3*c[84]+20*c[85]-c[91];
f17 := -10/3*c[8]-5/2*c[9]-20/3*c[10]+160/9*c[12]+175/9*c[13]+21/16*c[21]+65/8
*c[22]+39/40*c[23]+369/160*c[24]+87/32*c[25]+657/80*c[26]-711/160*c[27]-191/20
*c[28]-24/5*c[38]+8*c[39]+6/5*c[40]-231291/3700*c[59]+218631/3700*c[60]+930051
/3700*c[61]+65502/185*c[62]+158832/925*c[63]+719046/925*c[64]-358331/3700*c[65
]-18181/111*c[66]-22697/2220*c[67]-21243/185*c[68]-60521/925*c[69]-24706/111*c
[70]+5996/111*c[71]+5908/2775*c[72]-2602/185*c[73]-9157/74*c[74]+8985/148*c[75
]-4671/3700*c[76]+41729/1850*c[77]+6657/148*c[78]-1981/925*c[79]+14971/185*c[
80]+11813/740*c[81]-7*c[82]-12*c[85]+9/5*c[90]+3/5*c[91]+9*c[92]-3/5*c[93]-6/5
*c[94];
f18 := -245/18*c[8]-10/3*c[9]-175/18*c[10]+35*c[11]-485/27*c[12]-485/27*c[13]-\
95/16*c[21]-185/24*c[22]-9/8*c[23]+81/32*c[24]-365/32*c[25]+337/16*c[26]-807/
32*c[27]-149/12*c[28]-4*c[38]+41817/1480*c[59]+4943/1480*c[60]+72903/1480*c[61
]+4448/37*c[62]+8208/185*c[63]+22599/185*c[64]-17803/1480*c[65]-4055/111*c[66]
+731/888*c[67]+4051/74*c[68]-9593/370*c[69]-3827/111*c[70]+6365/222*c[71]-7778

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/555*c[72]+547/37*c[73]+6725/148*c[74]-5775/296*c[75]-3453/1480*c[76]-3993/740*c[77]-2055/296*c[78]-3664/185*c[79]+413/74*c[80]-1331/296*c[81]+39/2*c[82]+5/3*c[83]-5/6*c[84]-13*c[85]+3*c[90]+c[91]+15*c[92]-3*c[93]-3*c[94];
 f19 := -45*c[8]+15*c[10]+40/3*c[12]+305/48*c[21]-65/72*c[22]+19/24*c[23]-437/32*c[24]-1085/96*c[25]+97/48*c[26]+1315/32*c[27]+115/36*c[28]+8*c[40]-93743/185*c[59]+164591/370*c[60]+329793/185*c[61]+174983/74*c[62]+210369/185*c[63]+1024932/185*c[64]-386974/555*c[65]-748685/666*c[66]-49331/666*c[67]-105928/111*c[68]-82897/185*c[69]-533644/333*c[70]+127940/333*c[71]+46568/1665*c[72]-4556/37*c[73]-101390/111*c[74]+20925/37*c[75]-7117/740*c[76]+82982/555*c[77]+12220/37*c[78]-6056/555*c[79]+65306/111*c[80]+3644/37*c[81]-18*c[82]+10*c[83]-5*c[84]-38*c[85]+3*c[90]+c[91]+40*c[92]-4*c[93]-2*c[94];
 f20 := 470/9*c[8]-520/3*c[9]+1570/9*c[10]-280*c[11]-5600/27*c[12]-2720/27*c[13]-25/24*c[21]+2185/36*c[22]+445/12*c[23]+925/16*c[24]+805/48*c[25]+1303/24*c[26]-827/16*c[27]-875/18*c[28]+32*c[38]-80*c[39]+16*c[40]+40271/185*c[59]-19806/185*c[60]-101331/185*c[61]-27893/37*c[62]-64578/185*c[63]-315504/185*c[64]+138463/555*c[65]+130615/333*c[66]+17422/333*c[67]+43996/111*c[68]+20074/185*c[69]+189040/333*c[70]-6740/333*c[71]-108536/1665*c[72]+3584/37*c[73]+33290/111*c[74]-6825/37*c[75]-2023/370*c[76]+8686/555*c[77]-2395/37*c[78]-23668/555*c[79]-15872/111*c[80]-463/37*c[81]+68*c[82]+20/3*c[83]-160/3*c[84]+88*c[85]+36*c[90]+12*c[91]+80*c[92]-32*c[93]-16*c[94];
 f21 := 25/2*c[41]-115/12*c[42]-75/4*c[43]-130/3*c[44]-181/4*c[45]-15/2*c[46]-\53/4*c[47]+6*c[48]+18*c[49]+4*c[50]+20*c[51]+33839/185*c[59]-29719/185*c[60]-\127389/185*c[61]-35402/37*c[62]-82062/185*c[63]-387656/185*c[64]+49599/185*c[65]+146120/333*c[66]+10057/333*c[67]+38684/111*c[68]+32366/185*c[69]+23256/37*c[70]-4880/37*c[71]-22184/1665*c[72]+5122/111*c[73]+34840/111*c[74]-22375/111*c[75]+1593/370*c[76]-7382/185*c[77]-12020/111*c[78]+4738/555*c[79]-6736/37*c[80]-1107/37*c[81]-14*c[86]-59/3*c[87]-175/3*c[88]-50/3*c[89]-23/2*c[90]-14/3*c[91]+5*c[92]+31/3*c[93]+8/3*c[94];
 f22 := 75/2*c[41]-55/4*c[42]-1485/4*c[43]-430*c[44]-1083/4*c[45]+15/2*c[46]+21/4*c[47]+18*c[48]-54*c[49]-12*c[50]-60*c[51]+101517/185*c[59]-79167/185*c[60]-\312237/185*c[61]-76236/37*c[62]-186246/185*c[63]-976488/185*c[64]+125487/185*c[65]+116150/111*c[66]+8059/111*c[67]+38684/37*c[68]+77118/185*c[69]+57336/37*c[70]-14640/37*c[71]-22184/555*c[72]+5122/37*c[73]+34840/37*c[74]-22375/37*c[75]+4779/370*c[76]-22146/185*c[77]-12020/37*c[78]+4738/185*c[79]-20208/37*c[80]-\3321/37*c[81]+6*c[86]+25*c[87]+41*c[88]+22*c[89]-9/2*c[90]-14*c[91]+15*c[92]+7*c[93]+8*c[94];
 f23 := 25*c[41]+35/6*c[42]-165/2*c[43]-140/3*c[44]-79/2*c[45]-45*c[46]-47/2*c[47]-72*c[48]-68879/185*c[59]+52159/185*c[60]+216129/185*c[61]+55172/37*c[62]+136332/185*c[63]+677576/185*c[64]-87169/185*c[65]-247340/333*c[66]-18283/333*c[67]-80324/111*c[68]-49856/185*c[69]-119224/111*c[70]+23900/111*c[71]+79424/1665*c[72]-12928/111*c[73]-71050/111*c[74]+44275/111*c[75]-549/185*c[76]+9802/185*c[77]+20195/111*c[78]+9632/555*c[79]+14196/37*c[80]+1757/37*c[81]-164/3*c[86]-42*c[87]-142*c[88]-92/3*c[89]+3*c[90]+68/3*c[91]+220/3*c[92]+4*c[93]+4/3*c[94];
 f24 := -15*c[41]-10*c[42]+30*c[43]+35*c[44]+3*c[45]+40*c[46]+18*c[47]-3*c[48]-\301839/740*c[59]+256839/740*c[60]+1094769/740*c[61]+73128/37*c[62]+174258/185*c[63]+848394/185*c[64]-435089/740*c[65]-105235/111*c[66]-9623/148*c[67]-28657/37*c[68]-70569/185*c[69]-150326/111*c[70]+35965/111*c[71]+4484/185*c[72]-3827/37*c[73]-52105/74*c[74]+68225/148*c[75]-2556/185*c[76]+31601/370*c[77]+37535/148*c[78]-7439/185*c[79]+15139/37*c[80]+10657/148*c[81]+56/3*c[86]+53/3*c[87]+193/3*c[88]+76/3*c[89]+7*c[90]+4*c[91]+85/6*c[92]-71/6*c[93]-3*c[94]+15*c[95];