```
################################################################################
################################################################################
### File "c5_diripil_to_ripil_in_ne_basis";
################################################################################
################################################################################
### restart;

deb:=X-> [seq(op(k,X),k=1..nops(X)-1)]; ##
summa:=X-> add(op(k,X),k=1..nops(X)); ##

heen:=proc(X): proc(p,q): if p=0 or p>op(-1,X) then 0  else (-1)^(1+nops(X)+summa(X)-p)*op(+1,X)*a[summa(X)-p] fi end: end:
heen0:=proc(X): (-1)^(nops(X)+summa(X))*op(+1,X)*a[summa(X)]  end:


## renep:='renep': renep[]:=1: a:='a':   [seq(a[r]= -1/(1+r)!,  r=1..14)]; assign(%);

Nep:=proc(X):
 if X=[] then 1
elif nops(X)=1 and op(X)=1 then +a[1]
elif nops(X)=1 and op(X)>1 then
+1/summa(X)*heen0(X)
+1/summa(X)*add(renep[p]*heen(X)(p),p=1..op(X)-1)
elif nops(X)>1 then
+1/summa(X)*add( renep[seq(op(k,X),k=1..i-1)]*heen0([seq(op(k,X),k=i..nops(X))]), i=1..nops(X))
+1/summa(X)*add(add(add(  renep[seq(op(k,X),k=1..i-1),p,seq(op(k,X),k=j+1..nops(X))]*heen([seq(op(k,X),k=i..j)])(p),
p=1.. min(op(j,X),add(op(k,X),k=i..j)-1)), i=1..j),j=1..nops(X))
fi end:

################################################################################

serenop1:= [renop[1] = 1/2] : ##

serenop2:= [renop[2] = -5/6, renop[1,1] = 2/3] : ##

serenop3:= [renop[3] = 9/4, renop[1,2] = -7/4, renop[2,1] = -7/4, renop[1,1,1] = 3/2] : ##

serenop4:= [renop[4] = -251/30, renop[1,3] = 97/15, renop[2,2] = 94/15, renop[3,1] = 32/5, renop[1,1,2] = -82/15,
           renop[1,2,1] = -53/10, renop[2,1,1] = -163/30, renop[1,1,1,1] = 24/5] : ##

serenop5:= [renop[5] = 475/12, renop[1,4] = -367/12, renop[2,3] = -88/3, renop[3,2] = -29, renop[4,1] = -359/12,
renop[1,1,3] = 155/6, renop[1,2,2] = 49/2, renop[1,3,1] = 293/12, renop[2,1,2] = 151/6, renop[2,2,1] = 73/3,
renop[3,1,1] = 101/4, renop[1,1,1,2] = -45/2,  renop[1,1,2,1] = -65/3, renop[1,2,1,1] = -259/12,
renop[2,1,1,1] = -89/4, renop[1,1,1,1,1] = 20] : ##

serenop6:=
[renop[6] = -19087/84, renop[1,5] = 1231/7, renop[2,4] = 4703/28, renop[3,3] = 3449/21, renop[4,2] = 13763/84,
renop[5,1] = 7145/42, renop[1,1,4] = -1042/7, renop[1,2,3] = -1965/14, renop[1,3,2] = -1909/14, renop[1,4,1] = -965/7,
renop[2,1,3] = -2019/14, renop[2,2,2] = -957/7, renop[2,3,1] = -11393/84, renop[3,1,2] = -5953/42,
renop[3,2,1] = -11507/84, renop[4,1,1] = -2001/14, renop[1,1,1,3] = 909/7, renop[1,1,2,2] = 860/7,
renop[1,1,3,1] = 1699/14, renop[1,2,1,2] = 860/7, renop[1,2,2,1] = 1657/14, renop[1,3,1,1] = 2524/21,
renop[2,1,1,2] = 887/7, renop[2,1,2,1] = 5119/42, renop[2,2,1,1] = 2542/21, renop[3,1,1,1] = 5281/42,
renop[1,1,1,1,2] = -804/7, renop[1,1,1,2,1] = -1545/14, renop[1,1,2,1,1] = -2293/21,
renop[1,2,1,1,1] = -3069/28, renop[2,1,1,1,1] = -9503/84, renop[1,1,1,1,1,1] = 720/7] : ##

serenop7:=
[renop[7] = 36799/24, renop[1,6] = -28549/24, renop[2,5] = -9073/8, renop[3,4] = -26489/24, renop[4,3] = -26123/24, renop[5,2] = -8735/8,
renop[6,1] = -27337/24, renop[1,1,5] = 4039/4, renop[1,2,4] = 7605/8, renop[1,3,3] = 10999/12, renop[1,4,2] = 21629/24,
renop[1,5,1] = 2759/3, renop[2,1,4] = 7813/8, renop[2,2,3] = 1843/2, renop[2,3,2] = 10715/12, renop[2,4,1] = 21563/24,
renop[3,1,3] = 11449/12, renop[3,2,2] = 10861/12, renop[3,3,1] = 2689/3, renop[4,1,2] = 22609/24, renop[4,2,1] = 21853/24,
renop[5,1,1] = 2860/3, renop[1,1,1,4] = -3535/4, renop[1,1,2,3] = -833, renop[1,1,3,2] = -805, renop[1,1,4,1] = -3227/4,
renop[1,2,1,3] = -3337/4, renop[1,2,2,2] = -1581/2, renop[1,2,3,1] = -18713/24, renop[1,3,1,2] = -9641/12, renop[1,3,2,1] = -18589/24,
renop[1,4,1,1] = -4765/6, renop[2,1,1,3] = -3441/4, renop[2,1,2,2] = -4885/6, renop[2,1,3,1] = -19253/24, renop[2,2,1,2] = -4871/6,
renop[2,2,2,1] = -1563/2, renop[2,3,1,1] = -3161/4, renop[3,1,1,2] = -10105/12, renop[3,1,2,1] = -19433/24, renop[3,2,1,1] = -9643/12,
renop[4,1,1,1] = -2512/3, renop[1,1,1,1,3] = 784, renop[1,1,1,2,2] = 742, renop[1,1,1,3,1] = 2919/4, renop[1,1,2,1,2] = 2212/3,
renop[1,1,2,2,1] = 2128/3, renop[1,1,3,1,1] = 8575/12, renop[1,2,1,1,2] = 1483/2, renop[1,2,1,2,1] = 2137/3, renop[1,2,2,1,1] = 2819/4,
renop[1,3,1,1,1] = 17231/24, renop[2,1,1,1,2] = 4591/6, renop[2,1,1,2,1] = 4409/6, renop[2,1,2,1,1] = 8713/12, renop[2,2,1,1,1] = 2180/3,
renop[3,1,1,1,1] = 18089/24, renop[1,1,1,1,1,2] = -700, renop[1,1,1,1,2,1] = -672, renop[1,1,1,2,1,1] = -2653/4, renop[1,1,2,1,1,1] = -1323/2,
renop[1,2,1,1,1,1] = -15983/24, renop[2,1,1,1,1,1] = -16495/24, renop[1,1,1,1,1,1,1] = 630] : ##

serenop8:=
[renop[8] = -1070017/90, renop[1,7] = 416173/45, renop[2,6] = 79303/9, renop[3,5] = 385006/45, renop[4,4] = 377756/45,
renop[5,3] = 74888/9, renop[6,2] = 377081/45, renop[7,1] = 394828/45, renop[1,1,6] = -354298/45, renop[1,2,5] = -74119/10,
```

renop[1,3,4] = -35637/5, renop[1,4,3] = -125051/18, renop[1,5,2] = -309716/45, renop[1,6,1] = -636419/90, renop[2,1,5] = - 45677/6,
renop[2,2,4] = -21530/3, renop[2,3,3] = -310879/45, renop[2,4,2] = -609467/90, renop[2,5,1] = -68789/10, renop[3,1,4] = -333976/45,
renop[3,2,3] = -315517/45, renop[3,3,2] = -61100/9, renop[3,4,1] = -613441/90, renop[4,1,3] = -655363/90,
renop[4,2,2] = -622141/90, renop[4,3,1] = -615619/90, renop[5,1,2] = -64913/9, renop[5,2,1] = -41837/6, renop[6,1,1] = -658727/90,
renop[1,1,1,5] = 34572/5, renop[1,1,2,4] = 97726/15, renop[1,1,3,3] = 56338/9, renop[1,1,4,2] = 275396/45,
renop[1,1,5,1] = 278722/45, renop[1,2,1,4] = 65299/10, renop[1,2,2,3] = 6168, renop[1,2,3,2] = 89377/15, renop[1,2,4,1] =178753/30,
renop[1,3,1,3] = 18802/3, renop[1,3,2,2] = 29729/5, renop[1,3,3,1] = 527629/90, renop[1,4,1,2] = 109637/18,
renop[1,4,2,1] = 52882/9, renop[1,5,1,1] = 272786/45, renop[2,1,1,4] = 40385/6, renop[2,1,2,3] = 31756/5, renop[2,1,3,2] = 91957/15,
renop[2,1,4,1] = 551351/90, renop[2,2,1,3] = 31716/5, renop[2,2,2,2] = 30064/5, renop[2,2,3,1] = 266408/45,
renop[2,3,1,2] = 273919/45, renop[2,3,2,1] = 527833/90, renop[2,4,1,1] = 269461/45, renop[3,1,1,3] = 295672/45, renop[3,1,2,2] = 55997/9,
renop[3,1,3,1] = 551071/90, renop[3,2,1,2] = 278977/45, renop[3,2,2,1] = 536959/90, renop[3,3,1,1] = 54202/9,
renop[4,1,1,2] = 579973/90, renop[4,1,2,1] = 278819/45, renop[4,2,1,1] = 92221/15, renop[5,1,1,1] = 19256/3, renop[1,1,1,1,4] = -30792/5,
renop[1,1,1,2,3] = -5814, renop[1,1,1,3,2] = -28034/5, renop[1,1,1,4,1] = -27958/5, renop[1,1,2,1,3] = -5788,
renop[1,1,2,2,2] = -82312/15, renop[1,1,2,3,1] = -242822/45, renop[1,1,3,1,2] = -49828/9, renop[1,1,3,2,1] = -47986/9,
renop[1,1,4,1,1] = -244136/45, renop[1,2,1,1,3] = -5825, renop[1,2,1,2,2] = -82762/15, renop[1,2,1,3,1] = -162583/30,
renop[1,2,2,1,2] = -5482, renop[1,2,2,2,1] = -15818/3, renop[1,2,3,1,1] = -79552/15, renop[1,3,1,1,2] = -16751/3, renop[1,3,1,2,1] = -96563/18,
renop[1,3,2,1,1] = -79642/15, renop[1,4,1,1,1] = -98057/18, renop[2,1,1,1,3] = -30041/5, renop[2,1,1,2,2] = -85342/15,
renop[2,1,1,3,1] = -502841/90, renop[2,1,2,1,2] = -84698/15, renop[2,1,2,2,1] = -244354/45, renop[2,1,3,1,1] = -81862/15,
renop[2,2,1,1,2] = -84928/15, renop[2,2,1,2,1] = -244694/45, renop[2,2,2,1,1] = -26874/5, renop[2,3,1,1,1] = -490873/90,
renop[3,1,1,1,2] = -263857/45, renop[3,1,1,2,1] = -506719/90, renop[3,1,2,1,1] = -50044/9, renop[3,2,1,1,1] = -500419/90,
renop[4,1,1,1,1] = -519943/90, renop[1,1,1,1,3] = 5520, renop[1,1,1,2,2] = 26144/5, renop[1,1,1,3,1] = 25648/5,
renop[1,1,1,2,1,2] = 5184, renop[1,1,1,2,2,1] = 4984, renop[1,1,1,3,1,1] = 25004/5, renop[1,1,2,1,1,2] = 15544/3,
renop[1,1,2,1,2,1] = 44776/9, renop[1,1,2,2,1,1] = 73712/15, renop[1,1,3,1,1,1] = 44731/9, renop[1,2,1,1,1,2] = 15662/3,
renop[1,2,1,1,2,1] = 15034/3, renop[1,2,1,2,1,1] = 74162/15, renop[1,2,2,1,1,1] = 14789/3, renop[1,3,1,1,1,1] = 45205/9,
renop[2,1,1,1,1,2] = 26926/5, renop[2,1,1,1,2,1] = 232594/45, renop[2,1,1,2,1,1] = 76472/15, renop[2,1,2,1,1,1] = 228499/45,
renop[2,2,1,1,1,1] = 229364/45, renop[3,1,1,1,1,1] = 237452/45, renop[1,1,1,1,1,1,2] = -4960, renop[1,1,1,1,1,2,1] = -4760,
renop[1,1,1,1,2,1,1] = -23464/5, renop[1,1,1,2,1,1,1] = -4669, renop[1,1,2,1,1,1,1] = -42046/9, renop[1,2,1,1,1,1,1] = -28255/6,
renop[2,1,1,1,1,1,1] = -437153/90, renop[1,1,1,1,1,1,1,1] = 4480] : ##

serenop9:=
[renop[9] = 2082753/20, renop[1,8] = -324901/4, renop[2,7] = -773791/10, renop[3,6] = -750501/10, renop[4,5] = -367252/5,
renop[5,4] = -72416, renop[6,3] = -720333/10, renop[7,2] = -727573/10, renop[8,1] = -305653/4, renop[1,1,7] = 693417/10,
renop[1,2,6] = 326567/5, renop[1,3,5] = 251005/4, renop[1,4,4] = 304799/5, renop[1,5,3] = 1196401/20, renop[1,6,2] =
297908/5, renop[1,7,1] = 246153/4, renop[2,1,6] = 335333/5, renop[2,2,5] = 316233/5, renop[2,3,4] = 303776/5, renop[2,4,3]
= 1181803/20, renop[2,5,2] = 1167201/20, renop[2,6,1] = 597007/10, renop[3,1,5] = 1306827/20, renop[3,2,4] = 61695, renop[
3,3,3] = 296874/5, renop[3,4,2] = 1162543/20, renop[3,5,1] = 117817/2, renop[4,1,4] = 319813/5, renop[4,2,3] = 241961/4,
renop[4,3,2] = 1171141/20, renop[4,4,1] = 293598/5, renop[5,1,3] = 251759/4, renop[5,2,2] = 239139/4, renop[5,3,1] =
118267/2, renop[6,1,2] = 312449/5, renop[6,2,1] = 604273/10, renop[7,1,1] = 1271151/20, renop[1,1,6] = -610917/10, renop
[1,1,2,5] = -288021/5, renop[1,1,3,4] = -110515/2, renop[1,1,4,3] = -268194/5, renop[1,1,5,2] = -528451/10, renop[1,1,6,1]
= -269382/5, renop[1,2,1,5] = -1155243/20, renop[1,2,2,4] = -545607/10, renop[1,2,3,3] = -524327/10, renop[1,2,4,2] = -\
1024057/20, renop[1,2,5,1] = -206777/4, renop[1,3,1,4] = -1108361/20, renop[1,3,2,3] = -104849/2, renop[1,3,3,2] = -101305
/2, renop[1,3,4,1] = -101213/2, renop[1,4,1,3] = -1072763/20, renop[1,4,2,2] = -1018619/20, renop[1,4,3,1] = -50217, renop
[1,5,1,2] = -1048681/20, renop[1,5,2,1] = -1012181/20, renop[1,6,1,1] = -1048887/20, renop[2,1,1,5] = -1190307/20, renop[2
,1,2,4] = -561627/10, renop[2,1,3,3] = -539339/10, renop[2,1,4,2] = -1052801/20, renop[2,1,5,1] = -1062389/20, renop[2,2,1
,4] = -280701/5, renop[2,2,2,3] = -265392/5, renop[2,2,3,2] = -256184/5, renop[2,2,4,1] = -255641/5, renop[2,3,1,3] = -\
268664/5, renop[2,3,2,2] = -509931/10, renop[2,3,3,1] = -1004173/20, renop[2,4,1,2] = -1040713/20, renop[2,4,2,1] = -\
1003443/20, renop[2,5,1,1] = -515553/10, renop[3,1,1,4] = -232335/4, renop[3,1,2,3] = -548613/10, renop[3,1,3,2] = -529319
/10, renop[3,1,4,1] = -52811, renop[3,2,1,3] = -273762/5, renop[3,2,2,2] = -519221/10, renop[3,2,3,1] = -1021471/20, renop
[3,3,1,2] = -262384/5, renop[3,3,2,1] = -252739/5, renop[3,4,1,1] = -515049/10, renop[4,1,1,3] = -1136011/20, renop[4,1,2,
2] = -1076263/20, renop[4,1,3,1] = -105843/2, renop[4,2,1,2] = -214435/4, renop[4,2,2,1] = -206345/4, renop[4,3,1,1] = -\
520263/10, renop[5,1,1,2] = -223179/4, renop[5,1,2,1] = -214589/4, renop[5,2,1,1] = -106467/2, renop[6,1,1,1] = -1113111/
20, renop[1,1,1,1,5] = 273096/5, renop[1,1,1,2,4] = 103167/2, renop[1,1,1,3,3] = 247569/5, renop[1,1,1,4,2] = 482691/10,
renop[1,1,1,5,1] = 243057/5, renop[1,1,2,1,4] = 51405, renop[1,1,2,2,3] = 243144/5, renop[1,1,2,3,2] = 234578/5, renop[1,1
,2,4,1] = 233737/5, renop[1,1,3,1,3] = 49073, renop[1,1,3,2,2] = 46580, renop[1,1,3,3,1] = 91635/2, renop[1,1,4,1,2] =
236934/5, renop[1,1,4,2,1] = 456723/10, renop[1,1,5,1,1] = 233933/5, renop[1,2,1,1,4] = 1035039/20, renop[1,2,1,2,3] =
244611/5, renop[1,2,1,3,2] = 471621/10, renop[1,2,1,4,1] = 187807/4, renop[1,2,2,1,3] = 243477/5, renop[1,2,2,2,2] = 46194
, renop[1,2,2,3,1] = 453771/10, renop[1,2,3,1,2] = 465377/10, renop[1,2,3,2,1] = 896139/20, renop[1,2,4,1,1] = 454991/10,
renop[1,3,1,1,3] = 495727/10, renop[1,3,1,2,2] = 469859/10, renop[1,3,1,3,1] = 461251/10, renop[1,3,2,1,2] = 93395/2,
renop[1,3,2,2,1] = 179655/4, renop[1,3,3,1,1] = 45153, renop[1,4,1,1,2] = 956963/20, renop[1,4,1,2,1] = 919563/20, renop[1
,4,2,1,1] = 455237/10, renop[1,5,1,1,1] = 938321/20, renop[2,1,1,1,4] = 1067079/20, renop[2,1,1,2,3] = 252117/5, renop[2,1
,1,3,2] = 485993/10, renop[2,1,1,4,1] = 967539/20, renop[2,1,2,1,3] = 250689/5, renop[2,1,2,2,2] = 237778/5, renop[2,1,2,3
,1] = 467099/10, renop[2,1,3,1,2] = 478769/10, renop[2,1,3,2,1] = 921843/20, renop[2,1,4,1,1] = 467803/10, renop[2,2,1,1,3
] = 251574/5, renop[2,2,1,2,2] = 238418/5, renop[2,2,1,3,1] = 233927/5, renop[2,2,2,1,2] = 236682/5, renop[2,2,2,2,1] =
227592/5, renop[2,2,3,1,1] = 228539/5, renop[2,3,1,1,2] = 480363/10, renop[2,3,1,2,1] = 922861/20, renop[2,3,2,1,1] =
228178/5, renop[2,4,1,1,1] = 466449/10, renop[3,1,1,1,3] = 520389/10, renop[3,1,1,2,2] = 493031/10, renop[3,1,1,3,1] =
241879/5, renop[3,1,2,1,2] = 489083/10, renop[3,1,2,2,1] = 940531/20, renop[3,1,3,1,1] = 236037/5, renop[3,2,1,1,2] =
489989/10, renop[3,2,1,2,1] = 941083/20, renop[3,2,2,1,1] = 232458/5, renop[3,3,1,1,1] = 235494/5, renop[4,1,1,1,2] =
1015951/20, renop[4,1,1,2,1] = 975501/20, renop[4,1,2,1,1] = 481609/10, renop[4,2,1,1,1] = 96291/2, renop[5,1,1,1,1] =
200299/4, renop[1,1,1,1,4] = -49176, renop[1,1,1,2,3] = -232524/5, renop[1,1,1,3,2] = -224028/5, renop[1,1,1,4,1]
= -222732/5, renop[1,1,1,2,1,3] = -46197, renop[1,1,1,2,2,2] = -43830, renop[1,1,1,2,3,1] = -86037/2, renop[1,1,1,3,1,2] =
-220299/5, renop[1,1,1,3,2,1] = -424083/10, renop[1,1,1,4,1,1] = -214833/5, renop[1,1,2,1,1,3] = -46218, renop[1,1,2,1,2,2
] = -43816, renop[1,1,2,1,3,1] = -42959, renop[1,1,2,2,1,2] = -217344/5, renop[1,1,2,2,2,1] = -208964/5, renop[1,1,2,3,1,1
] = -209588/5, renop[1,1,3,1,1,2] = -43976, renop[1,1,3,1,2,1] = -42237, renop[1,1,3,2,1,1] = -41750, renop[1,1,4,1,1,1] =
-425463/10, renop[1,2,1,1,1,3] = -465849/10, renop[1,2,1,1,2,2] = -44157, renop[1,2,1,1,3,1] = -865577/20, renop[1,2,1,2,1
,2] = -218811/5, renop[1,2,1,2,2,1] = -210341/5, renop[1,2,1,3,1,1] = -210783/5, renop[1,2,2,1,1,2] = -218622/5, renop[1,2
,2,1,2,1] = -209907/5, renop[1,2,2,2,1,1] = -41451, renop[1,2,3,1,1,1] = -837189/20, renop[1,3,1,1,1,2] = -445247/10,
renop[1,3,1,1,2,1] = -854819/20, renop[1,3,1,2,1,1] = -210827/5, renop[1,3,2,1,1,1] = -168201/4, renop[1,4,1,1,1,1] = -\
861663/20, renop[2,1,1,1,1,3] = -480273/10, renop[2,1,1,1,2,2] = -227593/5, renop[2,1,1,1,3,1] = -892233/20, renop[2,1,1,2
,1,2] = -225507/5, renop[2,1,1,2,2,1] = -216767/5, renop[2,1,1,3,1,1] = -217189/5, renop[2,1,2,1,1,2] = -225094/5, renop[2

,1,2,1,2,1] = -216109/5, renop[2,1,2,2,1,1] = -213353/5, renop[2,1,3,1,1,1] = -861273/20, renop[2,2,1,1,1,2] = -226154/5, renop[2,2,1,1,2,1] = -217064/5, renop[2,2,1,2,1,1] = -214063/5, renop[2,2,2,1,1,1] = -213237/5, renop[2,3,1,1,1,1] = -\
216474/5, renop[3,1,1,1,1,2] = -467579/10, renop[3,1,1,1,2,1] = -897523/20, renop[3,1,1,2,1,1] = -221253/5, renop[3,1,2,1,1,1] = -881001/20, renop[3,2,1,1,1,1] = -220887/5, renop[4,1,1,1,1,1] = -915471/20, renop[1,1,1,1,1,1,3] = 44388, renop[1,1,1,1,1,2,2] = 42084, renop[1,1,1,1,1,3,1] = 41220, renop[1,1,1,1,2,1,2] = 208404/5, renop[1,1,1,1,2,2,1] = 200304/5, renop[1,1,1,1,3,1,1] = 200508/5, renop[1,1,1,2,1,1,2] = 41562, renop[1,1,1,2,1,2,1] = 39900, renop[1,1,1,2,2,1,1] = 39378, renop[1,1,1,3,1,1,1] = 396813/10, renop[1,1,2,1,1,1,2] = 41632, renop[1,1,2,1,2,1,1] = 39956, renop[1,1,2,1,2,1,1] = 39392, renop[1,1,2,2,1,1,1] = 196064/5, renop[1,1,3,1,1,1,1] = 79377/2, renop[1,2,1,1,1,1,2] = 209907/5, renop[1,2,1,1,1,2,1] = 201437/5, renop[1,2,1,1,2,1,1] = 39708, renop[1,2,1,2,1,1,1] = 197441/5, renop[1,2,2,1,1,1,1] = 394959/10, renop[1,3,1,1,1,1,1] = 804339/20, renop[2,1,1,1,1,1,2] = 216379/5, renop[2,1,1,1,1,2,1] = 207639/5, renop[2,1,1,1,2,1,1] = 204638/5, renop[2,1,1,2,1,1,1] = 203462/5, renop[2,1,2,1,1,1,1] = 406623/10, renop[2,2,1,1,1,1,1] = 204354/5, renop[3,1,1,1,1,1,1] = 844713/20, renop[1,1,1,1,1,1,1,2] = -40068, renop[1,1,1,1,1,1,2,1] = -38448, renop[1,1,1,1,1,2,1,1] = -37884, renop[1,1,1,1,2,1,1,1] = -188244/5, renop[1,1,1,2,1,1,1,1] = -75165/2, renop[1,1,2,1,1,1,1,1] = -37663, renop[1,2,1,1,1,1,1,1] = -\
759713/20, renop[2,1,1,1,1,1,1,1] = -783041/20, renop[1,1,1,1,1,1,1,1,1] = 36288] : ##

serenop10:= ## lprint(serenop(10));
[renop[10] = -134211265/132, renop[1,9] = 26239342/33, renop[2,8] = 100005013/132, renop[3,7] = 24236588/33, renop[4,6] = 47377163/66, renop[5,5] = 23291330/33, renop[6,4] = 46078073/66, renop[7,3] = 22977857/33, renop[8,2] = 93057187/132, renop[9,1] = 16330791/22, renop[1,1,8] = -22458796/33, renop[1,2,7] = -7056862/11, renop[1,3,6] = -40675739/66, renop[1,4,5] = -78921193/132, renop[1,5,4] = -19286594/33, renop[1,6,3] = -76060379/132, renop[1,7,2] = -12677883/22, renop[1,8,1] = -13150113/22, renop[2,1,7] = -21733277/33, renop[2,2,6] = -20512057/33, renop[2,3,5] = -78776993/132, renop[2,4,4] = -\
19100053/33, renop[2,5,3] = -18699752/33, renop[2,6,2] = -74279533/132, renop[2,7,1] = -76406119/132, renop[3,1,6] = -\
42347551/66, renop[3,2,5] = -80014547/132, renop[3,3,4] = -19217057/33, renop[3,4,3] = -74702207/132, renop[3,5,2] = -\
18417698/33, renop[3,6,1] = -6265597/11, renop[4,1,5] = -27613537/44, renop[4,2,4] = -6526307/11, renop[4,3,3] = -75378101/132, renop[4,4,2] = -18436934/33, renop[4,5,1] = -37317553/66, renop[5,1,4] = -20328755/33, renop[5,2,3] = -19240910/33, renop[5,3,2] = -18625625/33, renop[5,4,1] = -37327315/66, renop[6,1,3] = -80188597/132, renop[6,2,2] = -76206355/132, renop[6,3,1] = -6280048/11, renop[7,1,2] = -39883879/66, renop[7,2,1] = -77153377/132, renop[8,1,1] = -20321750/33, renop[1,1,1,7] = 6614805/11, renop[1,1,2,6] = 18731314/33, renop[1,1,3,5] = 35929877/66, renop[1,1,4,4] = 17396321/33, renop[1,1,5,3] = 33999817/66, renop[1,1,6,2] = 5614278/11, renop[1,1,7,1] = 11513863/22, renop[1,2,1,6] = 12525599/22, renop[1,2,2,5] = 11842389/22, renop[1,2,3,4] = 11365957/22, renop[1,2,4,3] = 22052675/44, renop[1,2,5,2] = 21694361/44, renop[1,2,6,1] = 5515399/11, renop[1,3,1,5] = 6011939/11, renop[1,3,2,4] = 11376429/22, renop[1,3,3,3] = 32813401/66, renop[1,3,4,2] = 32032357/66, renop[1,3,5,1] = 64602713/132, renop[1,4,1,4] = 69765277/132, renop[1,4,2,3] = 66065251/132, renop[1,4,3,2] = 63849895/132, renop[1,4,4,1] = 15941351/33, renop[1,5,1,3] = 16971083/33, renop[1,5,2,2] = 16125095/33, renop[1,5,3,1] = 5300283/11, renop[1,6,1,2] = 66639209/132, renop[1,6,2,1] = 64349185/132, renop[1,7,1,1] = 16727873/33, renop[2,1,1,6] = 38702179/66, renop[2,1,2,5] = 12185873/22, renop[2,1,3,4] = 11687947/22, renop[2,1,4,3] = 67999633/132, renop[2,1,5,2] = 66869383/132, renop[2,1,6,1] = 16994521/33, renop[2,2,1,5] = 6093734/11, renop[2,2,2,4] = 5763261/11, renop[2,2,3,3] = 16611512/33, renop[2,2,4,2] = 16202807/33, renop[2,2,5,1] = 16322036/33, renop[2,3,1,4] = 69995297/132, renop[2,3,2,3] = 33133495/66, renop[2,3,3,2] = 31995853/66, renop[2,3,4,1] = 5318762/11, renop[2,4,1,3] = 67553869/132, renop[2,4,2,2] = 64162855/132, renop[2,4,3,1] = 21063133/44, renop[2,5,1,2] = 32908369/66, renop[2,5,2,1] = 31748881/66, renop[2,6,1,1] = 65556203/132, renop[3,1,1,5] = 37790911/66, renop[3,1,2,4] = 35706169/66, renop[3,1,3,3] = 34288291/66, renop[3,1,4,2] = 16718858/33, renop[3,1,5,1] = 22256213/44, renop[3,2,1,4] = 71332643/132, renop[3,2,2,3] = 33747025/66, renop[3,2,3,2] = 32566087/66, renop[3,2,4,1] = 5409467/11, renop[3,3,1,3] = 17054534/33, renop[3,3,2,2] = 16190330/33, renop[3,3,3,1] = 5309532/11, renop[3,4,1,2] = 65960837/132, renop[3,4,2,1] = 21194557/44, renop[3,5,1,1] = 16300165/33, renop[4,1,1,4] = 24628093/44, renop[4,1,2,3] = 23279845/44, renop[4,1,3,2] = 22457529/44, renop[4,1,4,1] = 16788199/33, renop[4,2,1,3] = 23228761/44, renop[4,2,2,2] = 22036075/44, renop[4,2,3,1] = 21663307/44, renop[4,3,1,2] = 66757511/132, renop[4,3,2,1] = 21431999/44, renop[4,4,1,1] = 5453092/11, renop[5,1,1,3] = 36177595/66, renop[5,1,2,2] = 34288675/66, renop[5,1,3,1] = 16853195/33, renop[5,2,1,2] = 34157995/66, renop[5,2,2,1] = 32868355/66, renop[5,3,1,1] = 16566205/33, renop[6,1,1,2] = 71167387/132, renop[6,1,2,1] = 22810665/44, renop[6,2,1,1] = 67910573/132, renop[7,1,1,1] = 35540771/66, renop[1,1,1,1,6] = -5934180/11, renop[1,1,1,2,5] = -11221725/22, renop[1,1,1,3,4] = -5380605/11, renop[1,1,1,4,3] = -10426689/22, renop[1,1,1,5,2] = -5120268/11, renop[1,1,1,6,1] = -10390125/22, renop[1,1,2,1,5] = -5595083/11, renop[1,1,2,2,4] = -5295828/11, renop[1,1,2,3,3] = -15261254/33, renop[1,1,2,4,2] = -14873669/33, renop[1,1,2,5,1] = -14960327/33, renop[1,1,3,1,4] = -\
32062937/66, renop[1,1,3,2,3] = -15185464/33, renop[1,1,3,3,2] = -14658223/33, renop[1,1,3,4,1] = -29205379/66, renop[1,1,4,1,3] = -15436319/33, renop[1,1,4,2,2] = -14664218/33, renop[1,1,4,3,1] = -9619751/22, renop[1,1,5,1,2] = -30001207/66, renop[1,1,5,2,1] = -14467285/33, renop[1,1,6,1,1] = -14894195/33, renop[1,2,1,1,5] = -22535553/44, renop[1,2,1,2,4] = -\
5329356/11, renop[1,2,1,3,3] = -10232275/22, renop[1,2,1,4,2] = -19932601/44, renop[1,2,1,5,1] = -20034571/44, renop[1,2,2,1,4] = -10619937/22, renop[1,2,2,2,3] = -5028198/11, renop[1,2,2,3,2] = -4849701/11, renop[1,2,2,4,1] = -9651013/22, renop[1,2,3,1,3] = -5066951/11, renop[1,2,3,2,2] = -9623447/22, renop[1,2,3,3,1] = -18915035/44, renop[1,2,4,1,2] = -\
19543025/44, renop[1,2,4,2,1] = -18831567/44, renop[1,2,5,1,1] = -9624217/22, renop[1,3,1,1,4] = -5402792/11, renop[1,3,1,2,3] = -10224333/22, renop[1,3,1,3,2] = -4928109/11, renop[1,3,1,4,1] = -58819573/132, renop[1,3,2,1,3] = -5089743/11, renop[1,3,2,2,2] = -9661067/22, renop[1,3,2,3,1] = -18970387/44, renop[1,3,3,1,2] = -29183731/66, renop[1,3,3,2,1] = -\
18731071/44, renop[1,3,4,1,1] = -14252147/33, renop[1,4,1,1,3] = -62504617/132, renop[1,4,1,2,2] = -59271937/132, renop[1,4,1,3,1] = -29085061/66, renop[1,4,2,1,2] = -58927681/132, renop[1,4,2,2,1] = -28339723/66, renop[1,4,3,1,1] = -28486045/66, renop[1,5,1,1,2] = -15150143/33, renop[1,5,1,2,1] = -4853430/11, renop[1,5,2,1,1] = -4807219/11, renop[1,6,1,1,1] = -\
14909650/33, renop[2,1,1,1,5] = -23222521/44, renop[2,1,1,2,4] = -5490351/11, renop[2,1,1,3,3] = -31617629/66, renop[2,1,1,4,2] = -61584103/132, renop[2,1,1,5,1] = -61897009/132, renop[2,1,2,1,4] = -10930157/22, renop[2,1,2,2,3] = -5174310/11, renop[2,1,2,3,2] = -4990093/11, renop[2,1,2,4,1] = -29790067/66, renop[2,1,3,1,3] = -5211017/11, renop[2,1,3,2,2] = -\
9896135/22, renop[2,1,3,3,1] = -19449983/44, renop[2,1,4,1,2] = -60264763/132, renop[2,1,4,2,1] = -19355779/44, renop[2,1,5,1,1] = -29666339/66, renop[2,2,1,1,4] = -5486666/11, renop[2,2,1,2,3] = -5191470/11, renop[2,2,1,3,2] = -5003018/11, renop[2,2,1,4,1] = -14920696/33, renop[2,2,2,1,3] = -5163222/11, renop[2,2,2,2,2] = -4900080/11, renop[2,2,2,3,1] = -\
4809297/11, renop[2,2,3,1,2] = -14786942/33, renop[2,2,3,2,1] = -4744661/11, renop[2,2,4,1,1] = -14426582/33, renop[2,3,1,1,3] = -31425943/66, renop[2,3,1,2,2] = -29800429/66, renop[2,3,1,3,1] = -4871546/11, renop[2,3,2,1,2] = -29597545/66, renop[2,3,2,2,1] = -18974959/44, renop[2,3,3,1,1] = -14288092/33, renop[2,4,1,1,2] = -60438079/132, renop[2,4,1,2,1] = -\
4838986/11, renop[2,4,2,1,1] = -9576453/22, renop[2,5,1,1,1] = -59006627/132, renop[3,1,1,1,4] = -34011289/66, renop[3,1,1,2,3] = -32169955/66, renop[3,1,1,3,2] = -15499706/33, renop[3,1,1,4,1] = -20548373/44, renop[3,1,2,1,3] = -15986819/33, renop[3,1,2,2,2] = -30338785/66, renop[3,1,2,3,1] = -19852623/44, renop[3,1,3,1,2] = -30510121/66, renop[3,1,3,2,1] = -\
19578877/44, renop[3,1,4,1,1] = -14881990/33, renop[3,2,1,1,3] = -32058877/66, renop[3,2,1,2,2] = -30395611/66, renop[3,2,1,3,1] = -4967333/11, renop[3,2,2,1,2] = -30162895/66, renop[3,2,2,2,1] = -19334457/44, renop[3,2,3,1,1] = -14547700/33, renop[3,3,1,1,2] = -15279794/33, renop[3,3,1,2,1] = -4892203/11, renop[3,3,2,1,1] = -14510080/33, renop[3,4,1,1,1] = -\
9868831/22, renop[4,1,1,1,3] = -22118839/44, renop[4,1,1,2,2] = -20964807/44, renop[4,1,1,3,1] = -30839741/66, renop[4,1,2

,1,2] = -20792855/44, renop[4,1,2,2,1] = -14993758/33, renop[4,1,3,1,1] = -30081797/66, renop[4,2,1,1,2] = -20824931/44, renop[4,2,1,2,1] = -4999496/11, renop[4,2,2,1,1] = -29632337/66, renop[4,3,1,1,1] = -9997617/22, renop[5,1,1,1,2] = -\ 32402395/66, renop[5,1,1,2,1] = -31112755/66, renop[5,1,2,1,1] = -15359230/33, renop[5,2,1,1,1] = -61412885/132, renop[6,1 ,1,1,1] = -10653565/22, renop[1,1,1,1,5] = 5364600/11, renop[1,1,1,2,4] = 5077500/11, renop[1,1,1,3,3] = 4873032/11, renop[1,1,1,4,2] = 4742748/11, renop[1,1,1,5,1] = 4760700/11, renop[1,1,2,1,4] = 10099065/22, renop[1,1,2,2,3] = 4783470/11, renop[1,1,2,3,2] = 4612035/11, renop[1,1,2,4,1] = 9169125/22, renop[1,1,3,1,3] = 4810662/11, renop[1,1,1 ,3,2,2] = 4569003/11, renop[1,1,3,3,1] = 8974491/22, renop[1,1,4,1,2] = 9260139/22, renop[1,1,4,2,1] = 4460400/11, renop[1,1,5,1,1] = 4549830/11, renop[1,1,2,1,1,4] = 5054543/11, renop[1,1,2,1,2,3] = 4785516/11, renop[1,1,2,1,3,2] = 4610770/11, renop[1,1,2,1,4,1] = 13738117/33, renop[1,1,2,2,1,3] = 4756608/11, renop[1,1,2,2,2,2] = 4515488/11, renop[1,1, 2,2,3,1] = 4429292/11, renop[1,1,2,3,1,2] = 13611914/33, renop[1,1,2,3,2,1] = 4367021/11, renop[1,1,2,4,1,1] = 13261190/33 , renop[1,1,3,1,1,3] = 14433559/33, renop[1,1,3,1,2,2] = 13691488/33, renop[1,1,3,1,3,1] = 26842249/66, renop[1,1,3,2,1,2] = 13591564/33, renop[1,1,3,2,2,1] = 13068899/33, renop[1,1,3,3,1,1] = 13108928/33, renop[1,1,4,1,1,2] = 13838954/33, renop [1,1,4,1,2,1] = 8863259/22, renop[1,1,4,2,1,1] = 4383180/11, renop[1,1,5,1,1,1] = 26935265/66, renop[1,2,1,1,1,4] = 20381709/44, renop[1,2,1,1,2,3] = 4823763/11, renop[1,2,1,1,3,2] = 9293227/22, renop[1,2,1,1,4,1] = 18454641/44, renop[1,2 ,1,2,1,3] = 4790136/11, renop[1,2,1,2,2,2] = 4547036/11, renop[1,2,1,2,3,1] = 4459355/11, renop[1,2,1,3,1,2] = 9131065/22, renop[1,2,1,3,2,1] = 17574927/44, renop[1,2,1,4,1,1] = 8888867/22, renop[1,2,2,1,1,3] = 4790499/11, renop[1,2,2,1,2,2] = 4544088/11, renop[1,2,2,1,3,1] = 8903959/22, renop[1,2,2,2,1,2] = 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serenop11:=

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= -132400945/24, renop[6,2,2,1] = -127402721/24, renop[6,3,1,1] = -42796547/8, renop[7,1,1,2] = -138030361/24, renop[7,1,2,1] = -33183479/6, renop[7,2,1,1] = -43912897/8, renop[8,1,1,1] = -69011551/12, renop[1,1,1,1,7] = 5870480, renop[1,1,1,2,6] = 11116347/2, renop[1,1,1,3,5] = 21325711/4, renop[1,1,1,4,4] = 10312621/2, renop[1,1,1,5,3] = 20111355/4, renop[1,1,1,6,2] = 9931427/2, renop[1,1,1,7,1] = 20272967/4, renop[1,1,2,1,6] = 16635179/3, renop[1,1,2,2,5] = 5255228, renop[1,1,2,3,4] = 15132799/3, renop[1,1,2,4,3] = 29326517/6, renop[1,1,2,5,2] = 28784525/6, renop[1,1,2,6,1] = 14581193/3, renop[1,1,3,1,5] = 21208385/4, renop[1,1,3,2,4] = 5025537, renop[1,1,3,3,3] = 28984219/6, renop[1,1,3,4,2] = 18833749/4, renop[1,1,3,5,1] = 18933717/4, renop[1,1,4,1,4] = 61257383/12, renop[1,1,4,2,3] = 14518955/3, renop[1,1,4,3,2] = 4673823, renop[1,1,4,4,1] = 27937481/6, renop[1,1,5,1,3] = 59319095/12, renop[1,1,5,2,2] = 56386099/12, renop[1,1,5,3,1] = 27752549/6, renop[1,1,6,1,2] = 57913339/12, 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-171880061/4, renop[1,1,1,6,1,1] = -17622825/4, renop[1,1,2,1,1,5] = -10061711/2, renop[1,1,2,1,2,4] = -4768104, renop[1,1,2,1,3,3] = -13733071/3, renop[1,1,2,1,4,2] = -26720749/6, renop[1,1,2,1,5,1] = -26787871/6, renop[1,1,2,2,1,4] = -4744388, renop[1,1,2,2,2,3] = -4498296, renop[1,1,2,2,3,2] = -4336904, renop[1,1,2,2,4,1] = -12921436/3, renop[1,1,2,3,1,3] = -13565926/3, renop[1,1,2,3,2,2] = -12890141/3, renop[1,1,2,3,3,1] = -25305137/6, renop[1,1,2,4,1,2] = -26101559/6, renop[1,1,2,4,2,1] = -8380977/2, renop[1,1,2,5,1,1] = -12808147/3, renop[1,1,3,1,1,4] = -19189973/4, renop[1,1,3,1,2,3] = -4545684, renop[1,1,3,1,3,2] = -26282201/6, renop[1,1,3,1,4,1] = -52180601/12, renop[1,1,3,2,1,3] = -4520802, renop[1,1,3,2,2,2] = -12880351/3, renop[1,1,3,2,3,1] = -25262237/6, renop[1,1,3,3,1,2] = -8628543/2, renop[1,1,3,3,2,1] = -49829923/12, renop[1,1,3,4,1,1] = -25211461/6, renop[1,1,4,1,1,3] = -13796849/3, renop[1,1,4,1,2,2] = -4364349, renop[1,1,4,1,3,1] = -25668005/6, renop[1,1,4,2,1,2] = 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renop[2,1,1,3,3,1] = -104845303/24, renop[2,1,1,4,1,2] = -36030255/8, renop[2,1,1,4,2,1] = -34703787/8, renop[2,1,1,5,1,1] = -17669117/4, renop[2,1,2,1,1,4] = -19674835/4, renop[2,1,2,1,2,3] = -4660536, renop[2,1,2,1,3,2] = -26937697/6, renop[2,1,2,1,4,1] = -53454325/12, renop[2,1,2,2,1,3] = -4630385, renop[2,1,2,2,2,2] = -13192028/3, renop[2,1,2,2,3,1] = -25864735/6, renop[2,1,2,3,1,2] = -26485355/6, renop[2,1,2,3,2,1] = -16992155/4, renop[2,1,2,4,1,1] = -8588791/2, renop[2,1,3,1,1,3] = -56093555/12, renop[2,1,3,1,2,2] = -53232059/12, renop[2,1,3,1,3,1] = -52149527/12, renop[2,1,3,2,1,2] = -52822727/12, renop[2,1,3,2,2,1] = -101574343/24, renop[2,1,3,3,1,1] = -12724297/3, renop[2,1,4,1,1,2] = -107338981/24, renop[2,1,4,1,2,1] = -12889022/3, renop[2,1,4,2,1,1] = -16991011/4, renop[2,1,5,1,1,1] = -104177251/24, renop[2,2,1,1,1,4] = -4944908, renop[2,2,1,1,2,3] = -4685022, renop[2,2,1,1,3,2] = -13536856/3, renop[2,2,1,1,4,1] = -13427252/3, renop[2,2,1,2,1,3] = -4650691, renop[2,2,1,2,2,2] = -13249228/3, renop[2,2,1,2,3,1] = -25971809/6, renop[2,2,1,3,1,2] = -13290533/3, renop[2,2,1,3,2,1] = -8525937/2, renop[2,2,1,4,1,1] = -4306688, renop[2,2,2,1,1,3] = -4646973, renop[2,2,2,1,2,2] = -4409868, renop[2,2,2,1,3,1] = -8636025/2, renop[2,2,2,2,1,2] = -4371984, renop[2,2,2,2,2,1] = -4202760, renop[2,2,2,3,1,1] = -4207545, renop[2,2,3,1,1,2] = -13230275/3, renop[2,2,3,1,2,1] = -25411865/6, renop[2,2,3,2,1,1] = -4183697, renop[2,2,4,1,1,1] = -4248179, renop[2,3,1,1,1,3] = -9426859/2, renop[2,3,1,1,2,2] = -53665063/12, renop[2,3,1,1,3,1] = -105082507/24, renop[2,3,1,2,1,2] = -53166719/12, renop[2,3,1,2,2,1] = -34069395/8, renop[2,3,1,3,1,1] = -12784544/3, renop[2,3,2,1,1,2] = -53089807/12, renop[2,3,2,1,2,1] = -101945945/24, renop[2,3,2,2,1,1] = -25154663/6, renop[2,3,3,1,1,1] = -33809509/8, renop[2,4,1,1,1,2] = -108281461/24, renop[2,4,1,1,2,1] = -103947725/24, renop[2,4,1,2,1,1] = -51263125/12, renop[2,4,2,1,1,1] = -25552489/6, renop[2,5,1,1,1,1] = 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renop[3,1,3,2,1,1] = -12931247/3, renop[3,1,4,1,1,1] = -8753671/2, renop[3,2,1,1,1,3] = -28857409/6, renop[3,2,1,1,2,2] = -18251987/4, renop[3,2,1,1,3,1] = -107206817/24, renop[3,2,1,2,1,2] = -54235441/12, renop[3,2,1,2,2,1] = -104256463/24, renop[3,2,1,3,1,1] = -4345898, renop[3,2,2,1,1,2] = -18038851/4, renop[3,2,2,1,2,1] = -103911503/24, renop[3,2,2,2,1,1] = -25636213/6, renop[3,2,3,1,1,1] = -34435303/8, renop[3,3,1,1,1,2] = -4569275, renop[3,3,1,1,2,1] = -26315771/6, renop[3,3,1,2,1,1] = -12974609/3, renop[3,3,2,1,1,1] = -8616523/2, renop[3,4,1,1,1,1] = -35128567/8, renop[4,1,1,1,1,3] = -119192033/24, renop[4,1,1,1,2,2] = -113058631/24, renop[4,1,1,1,3,1] = -36899109/8, renop[4,1,1,2,1,2] = -111979399/24, renop[4,1,1,2,2,1] = -35876197/8, renop[4,1,1,3,1,1] = -53847037/12, renop[4,1,2,1,1,2] = -111686491/24, renop[4,1,2,1,2,1] = -\
107225111/24, renop[4,1,2,2,1,1] = -52908187/12, renop[4,1,3,1,1,1] = -35533261/8, renop[4,2,1,1,1,2] = -112071491/24, renop[4,2,1,1,2,1] = -107566067/24, renop[4,2,1,2,1,1] = -53023379/12, renop[4,2,2,1,1,1] = -26391773/6, renop[4,3,1,1,1,1] = -35635253/8, renop[5,1,1,1,1,2] = -38636585/8, renop[5,1,1,1,2,1] = -55623895/12, renop[5,1,1,2,1,1] = -18279205/4, renop[5,1,2,1,1,1] = -13642180/3, renop[5,2,1,1,1,1] = -36467495/8, renop[6,1,1,1,1,1] = -9453175/2, renop[1,1,1,1,1,5] = 4851330, renop[1,1,1,1,2,4] = 4600200, renop[1,1,1,1,3,3] = 4415620, renop[1,1,1,1,4,2] = 4293190, renop[1,1,1,1,5,1] = 4299350, renop[1,1,1,2,1,4] = 4570764, renop[1,1,1,2,2,3] = 4335144, renop[1,1,1,2,3,2] = 4178460, renop[1,1,1,2,4,1] = 4146516, renop[1,1,1,3,1,3] = 4351116, renop[1,1,1,3,2,2] = 4134900, renop[1,1,1,3,3,1] = 4056514, renop[1,1,1,4,1,2] = 4179802, renop[1,1,1,4,2,1] = 4025494, renop[1,1,1,5,1,1] = 4094530, renop[1,1,2,1,1,4] = 18261309/4, renop[1,1,2,1,2,3] = 4327917, renop[1,1,2,1,3,2] = 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renop[1,2,1,2,1,2] = 4112069, renop[1,2,1,2,1,3,1] = 12073681/3, renop[1,2,1,2,2,1,2] = 4075373, renop[1,2,1,2,2,2,1] = 11752030/3, renop[1,2,1,2,3,1,1] = 7838071/2, renop[1,2,1,3,1,1,2] = 16416761/4, renop[1,2,1,3,1,2,1] = 31530451/8, renop[1,2,1,3,2,1,1] = 3892113, renop[1,2,1,4,1,1,1] = 3945408, renop[1,2,2,1,1,1,3] = 8679021/2, renop[1,2,2,1,1,2,2] = 4118867, renop[1,2,2,1,1,3,1] = 16119761/4, renop[1,2,2,1,2,1,2] = 4078629, renop[1,2,2,1,2,2,1] = 3919932, renop[1,2,2,1,3,1,1] = 3918557, renop[1,2,2,2,1,2,1] = 4067024, renop[1,2,2,2,2,1,1] = 3904554, renop[1,2,2,2,2,1,1] = 3852271, renop[1,2,2,3,1,1,1] = 15505543/4, renop[1,2,3,1,1,2,1] = 49315535/12, renop[1,2,3,1,2,1,1] = 94672423/24, renop[1,2,3,1,2,1,1] = 11666626/3, renop[1,2,3,2,1,1,1] = 92923621/24, renop[1,2,4,1,1,1,1] = 31484625/8, renop[1,3,1,1,1,1,3] = 52958905/12, renop[1,3,1,1,1,2,2] = 50260847/12, renop[1,3,1,1,1,3,1] = 4098016, renop[1,3,1,1,2,1,2] = 49763251/12, renop[1,3,1,1,2,2,1] = 95651323/24, renop[1,3,1,1,3,1,1] = 7967727/2, renop[1,3,1,2,1,1,2] = 49591409/12, renop[1,3,1,2,1,2,1] = 95217395/24, renop[1,3,1,2,2,1,1] = 11742046/3, renop[1,3,1,3,1,1,1] = 15748443/4, renop[1,3,2,1,1,1,2] = 49655143/12, renop[1,3,2,1,1,2,1] = 95315603/24, renop[1,3,2,1,2,1,1] = 23486083/6, renop[1,3,2,2,1,1,1] = 93461069/24, renop[1,3,3,1,1,1,1] = 15733439/4, renop[1,4,1,1,1,1,2] = 101453723/24, renop[1,4,1,1,1,2,1] = 97368565/24, renop[1,4,1,1,2,1,1] = 47979485/12, renop[1,4,1,2,1,1,1] = 47707345/12, renop[1,4,2,1,1,1,1] = 31819787/8, renop[1,5,1,1,1,1,1] = 16316875/4, renop[2,1,1,1,1,1,4] = 38027349/8, renop[2,1,1,1,1,2,3] = 9010839/2, renop[2,1,1,1,1,3,2] = 52060889/12, renop[2,1,1,1,1,4,1] = 103204411/24, renop[2,1,1,1,2,1,3] = 4470071, renop[2,1,1,1,2,2,2] = 12736958/3, renop[2,1,1,1,2,3,1] = 12478337/3, renop[2,1,1,1,3,1,2] = 17020909/4, renop[2,1,1,1,3,2,1] = 32753003/8, renop[2,1,1,1,4,1,1] = 49582721/12, renop[2,1,1,2,1,1,3] = 4459203, renop[2,1,1,2,1,2,2] = 4232603, 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3953400, renop[1,1,1,1,2,3,1] = -3871780, renop[1,1,1,1,3,1,2] = -3960220, renop[1,1,1,1,3,2,1] = -3810070, renop[1,1,1,1,4,1,1] = -3842410, renop[1,1,1,2,1,1,3] = -4149420, renop[1,1,1,2,1,2,2] = -3939672, renop[1,1,1,2,1,3,1] = -3854664, renop[1,1,1,2,2,1,2] = -3903768, renop[1,1,1,2,2,2,1] = -3752232, renop[1,1,1,2,3,1,1] = -3752166, renop[1,1,1,3,1,1,2] = -3927924, renop[1,1,1,3,1,2,1] = -3771922, renop[1,1,1,3,2,1,1] = -3724182, renop[1,1,1,4,1,1,1] = -3771460, renop[1,1,1,2,1,1,1,3] = -8298939/2, renop[1,1,1,2,1,1,2,2] = -3939375, renop[1,1,2,1,1,3,1] = -15412507/4, renop[1,1,1,2,1,2,1,2] = -3900237, renop[1,1,1,2,1,2,2,1] = -3748327, renop[1,1,1,2,1,3,1,1] = -3745335, renop[1,1,1,2,2,1,1,2] = -3887532, renop[1,1,1,2,2,1,2,1] = -3732157, renop[1,1,1,2,2,2,1,1] = -3681645, renop[1,1,1,2,3,1,1,1] = -14808673

/4, renop[1,1,1,3,1,1,1,2] = -7842725/2, renop[1,1,1,3,1,1,2,1] = -15055601/4, renop[1,1,1,3,1,2,1,1] = -3710135, renop[1,1,1,3,2,1,1,1] = -14770415/4, renop[1,1,1,4,1,1,1,1] = -14988127/4, renop[1,1,2,1,1,1,1,3] = -4162081, renop[1,1,2,1,1,1,2,2] = -11853886/3, renop[1,1,2,1,1,1,3,1] = -7728501/2, renop[1,1,2,1,1,2,1,2] = -3911182, renop[1,1,2,1,1,2,2,1] = -11275946/3, renop[1,1,2,1,1,3,1,1] = -11263912/3, renop[1,1,2,1,2,1,1,2] = -11686048/3, renop[1,1,2,1,2,1,2,1] = -11218438/3, renop[1,1,2,1,2,2,1,1] = -11065076/3, renop[1,1,2,1,3,1,1,1] = -7412779/2, renop[1,1,2,2,1,1,1,2] = -3894220, renop[1,1,2,2,1,1,2,1] = -11212432/3, renop[1,1,2,2,2,1,2,1,1] = -3683020, renop[1,1,2,2,2,1,1,1] = -10987438/3, renop[1,1,2,3,1,1,1,1] = -3692557, renop[1,1,3,1,1,1,1,2] = -11818246/3, renop[1,1,3,1,1,1,2,1] = -22683727/6, renop[1,1,3,1,1,2,1,1] = -3724952, renop[1,1,3,1,2,1,1,1] = -22210529/6, renop[1,1,3,2,1,1,1,1] = -3698222, renop[1,1,4,1,1,1,1,1] = -15045437/4, renop[1,2,1,1,1,1,1,3] = 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= 4647085078/91, renop[2,2,1,2,4,1] = 69157683853/1365, renop[2,2,1,3,1,3] = 24194774924/455, renop[2,2,1,3,2,2] = 4599216686/91, renop[2,2,1,3,3,1] = 22557216911/455, renop[2,2,1,4,1,2] = 69727646177/1365, renop[2,2,1,4,2,1] = 22384384394/455, renop[2,2,1,5,1,1] = 13657595260/273, renop[2,2,2,1,1,4] = 25402413213/455, renop[2,2,2,1,2,3] = 24088063176/455, renop[2,2,2,1,3,2] = 4640722722/91, renop[2,2,2,1,4,1] = 23002822929/455, renop[2,2,2,2,1,3] = 23927600016/455, renop[2,2,2,2,2,2] = 4546558080/91, renop[2,2,2,2,3,1] = 22274327304/455, renop[2,2,2,3,1,2] = 22804104786/455, renop[2,2,2,3,2,1] = 21944161611/455, renop[2,2,2,4,1,1] = 4432254930/91, renop[2,2,3,1,1,3] = 14480487928/273, renop[2,2,3,1,2,2] = 68739506366/1365, renop[2,2,3,1,3,1] = 67309681697/1365, renop[2,2,3,2,1,2] = 13639197478/273, renop[2,2,3,2,2,1] = 13113225577/273, renop[2,2,3,3,1,1] = 65664236896/1365, renop[2,2,4,1,1,2] = 69202957783/1365, renop[2,2,4,1,2,1] = 22159104196/455, renop[2,2,4,2,1,1] = 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586515682/13, renop[1,3,1,3,1,1,2] = -4299084679/91, renop[1,3,1,3,1,2,1] = -8257069781/182, renop[1,3,1,3,2,1,1] = -\
4076476384/91, renop[1,3,1,4,1,1,1] = -4128949519/91, renop[1,3,2,1,1,1,3] = -3247880618/65, renop[1,3,2,1,1,2,2] = -\
1233554801/26, renop[1,3,2,1,1,3,1] = -12065331323/260, renop[1,3,2,1,2,1,2] = -6107100821/130, renop[1,3,2,1,2,2,1] = -\
11738986447/260, renop[1,3,2,1,3,1,1] = -586496806/13, renop[1,3,2,2,1,1,2] = -42620573887/910, renop[1,3,2,2,1,2,1] = -\
81838205049/1820, renop[1,3,2,2,2,1,1] = -4036741689/91, renop[1,3,2,3,1,1,1] = -81197459229/1820, renop[1,3,3,1,1,1,2] =
-18446480659/390, renop[1,3,3,1,1,2,1] = -35413394723/780, renop[1,3,3,1,2,1,1] = -8727474754/195, renop[1,3,3,2,1,1,1] =
-34750345193/780, renop[1,3,4,1,1,1,1] = -41174189857/910, renop[1,4,1,1,1,1,3] = -7955308973/156, renop[1,4,1,1,1,2,2] =
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598885780/13, renop[1,4,1,1,3,1,1] = -3590758841/78, renop[1,4,1,2,1,1,2] = -52161331073/1092, renop[1,4,1,2,1,2,1] = -\
4173147140/91, renop[1,4,1,2,2,1,1] = -24700752047/546, renop[1,4,1,3,1,1,1] = -16558814777/364, renop[1,4,2,1,1,1,2] = -\
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2340777695/52, renop[1,4,3,1,1,1,1] = -16545780899/364, renop[1,5,1,1,1,1,2] = -3183582358/65, renop[1,5,1,1,1,2,1] = -\
12222244547/260, renop[1,5,1,1,2,1,1] = -1806817711/39, renop[1,5,1,2,1,1,1] = -2994361248/65, renop[1,5,2,1,1,1,1] = -\
20974436201/455, renop[1,6,1,1,1,1,1] = -6157193773/130, renop[2,1,1,1,1,1,5] = -103791542653/1820, renop[2,1,1,1,1,2,4] =
-24627617607/455, renop[2,1,1,1,1,3,3] = -141857833529/2730, renop[2,1,1,1,1,4,2] = -55146791207/1092, renop[2,1,1,1,1,5,1
] = -39404879251/780, renop[2,1,1,1,2,1,4] = -24463506517/455, renop[2,1,1,1,2,2,3] = -23216727984/455, renop[2,1,1,1,2,3,
2] = -4475068688/91, renop[2,1,1,1,2,4,1] = -66561121703/1365, renop[2,1,1,1,3,1,3] = -23283967299/455, renop[2,1,1,1,3,2,
2] = -8853484677/182, renop[2,1,1,1,3,3,1] = -86814090369/1820, renop[2,1,1,1,4,1,2] = -268208430313/5460, renop[2,1,1,1,4
,2,1] = -86092780351/1820, renop[2,1,1,1,5,1,1] = -26238042175/546, renop[2,1,1,2,1,1,4] = -24419333388/455, renop[2,1,1,2
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2,1,3] = -23002553166/455, renop[2,1,1,2,2,2,2] = -4371568720/91, renop[2,1,1,2,2,3,1] = -21409815929/455, renop[2,1,1,2,3
,1,2] = -21913041886/455, renop[2,1,1,2,3,2,1] = -21085030611/455, renop[2,1,1,2,4,1,1] = -4255503810/91, renop[2,1,1,3,1,
1,3] = -27796710481/546, renop[2,1,1,3,1,2,2] = -131979307157/2730, renop[2,1,1,3,1,3,1] = -129188876969/2730, renop[2,1,1
,3,2,1,2] = -26179835221/546, renop[2,1,1,3,2,2,1] = -50337479453/1092, renop[2,1,1,3,3,1,1] = -62981638796/1365, renop[2,
1,1,4,1,1,2] = -265249682807/5460, renop[2,1,1,4,1,2,1] = -42464736317/910, renop[2,1,1,4,2,1,1] = -41963675757/910, renop
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renop[2,1,2,1,1,3,2] = -4466997625/91, renop[2,1,2,1,1,4,1] = -132736432981/2730, renop[2,1,2,1,2,1,3] = -23013472074/455,
renop[2,1,2,1,2,2,2] = -4373522672/91, renop[2,1,2,1,2,3,1] = -21415063171/455, renop[2,1,2,1,3,1,2] = -65723599147/1365,
renop[2,1,2,1,3,2,1] = -42156128303/910, renop[2,1,2,1,4,1,1] = -12754140071/273, renop[2,1,2,2,1,1,3] = -22969310814/455,
renop[2,1,2,2,1,2,2] = -4362408140/91, renop[2,1,2,2,2,1,3,1] = -64022355473/1365, renop[2,1,2,2,2,1,2] = -21616028884/455,
renop[2,1,2,2,2,2,1] = -62333627432/1365, renop[2,1,2,2,3,1,1] = -4155599720/91, renop[2,1,2,3,1,1,2] = -21762417269/455,
renop[2,1,2,3,1,2,1] = -41798496743/910, renop[2,1,2,3,2,1,1] = -4127256834/91, renop[2,1,2,4,1,1,1] = -20905984744/455,
renop[2,1,3,1,1,1,3] = -23193106386/455, renop[2,1,3,1,1,2,2] = -8808438819/182, renop[2,1,3,1,1,3,1] = -86169049401/1820,
renop[2,1,3,1,2,1,2] = -43617321647/910, renop[2,1,3,1,2,2,1] = -83844314989/1820, renop[2,1,3,1,3,1,1] = -4190192278/91,
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1092, renop[2,1,4,1,2,1,1] = -125444854687/2730, renop[2,1,4,2,1,1,1] = -12495292625/273, renop[2,1,5,1,1,1,1] = -\

84985954059/1820, renop[2,2,1,1,1,4] = -24594475082/455, renop[2,2,1,1,2,3] = -23329853724/455, renop[2,2,1,1,3,2] = -4492901048/91, renop[2,2,1,1,4,1] = -66745178758/1365, renop[2,2,1,2,1,3] = -23143985184/455, renop[2,2,1,1,2,2,2] = -4398265936/91, renop[2,2,1,1,2,3,1] = -21534560276/455, renop[2,2,1,1,3,1,2] = -66080759132/1365, renop[2,2,1,1,3,2,1] = -21191833034/455, renop[2,2,1,1,4,1,1] = -12820178680/273, renop[2,2,1,2,1,1,3] = -23081956074/455, renop[2,2,1,2,1,2,2] = -4383788044/91, renop[2,2,1,2,1,3,1] = -64330571563/1365, renop[2,2,1,2,2,1,2] = -21719324804/455, renop[2,2,1,2,2,2,1] = -62629501192/1365, renop[2,2,1,2,3,1,1] = -4174661308/91, renop[2,2,1,3,1,1,2] = -21853165654/455, renop[2,2,1,3,1,2,1] = -20985704969/455, renop[2,2,1,3,2,1,1] = -4143942048/91, renop[2,2,1,4,1,1,1] = -20979475889/455, renop[2,2,2,1,1,1,3] = -\
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21649404096/455, renop[2,2,2,2,1,2,1] = -20784671136/455, renop[2,2,2,2,2,1,1] = -4100650800/91, renop[2,2,2,3,1,1,1] = -\
20615874651/455, renop[2,2,3,1,1,1,2] = -13107882694/273, renop[2,2,3,1,1,2,1] = -12581910793/273, renop[2,2,3,1,2,1,1] = -62011447756/1365, renop[2,2,3,2,1,1,1] = -12343905025/273, renop[2,2,4,1,1,1,1] = -20879620991/455, renop[2,3,1,1,1,1,3] = -140523467509/2730, renop[2,3,1,1,1,2,2] = -26683681109/546, renop[2,3,1,1,1,3,1] = -130483735261/2730, renop[2,3,1,1,2,1,2] = -132078430909/2730, renop[2,3,1,1,2,2,1] = -253865246393/5460, renop[2,3,1,1,3,1,1] = -12680851271/273, renop[2,3,1,2,1,1,2] = -131578744579/2730, renop[2,3,1,2,1,2,1] = -84212595291/1820, renop[2,3,1,2,2,1,1] = -12460017944/273, renop[2,3,1,3,1,1,1] = -20873147394/455, renop[2,3,2,1,1,1,2] = -131655128029/2730, renop[2,3,2,1,1,2,1] = -252722664953/5460, renop[2,3,2,1,2,1,1] = -12452857505/273, renop[2,3,2,2,1,1,1] = -247706123423/5460, renop[2,3,3,1,1,1,1] = -41651971273/910, renop[2,4,1,1,1,1,2] = -89389463689/1820, renop[2,4,1,1,1,2,1] = -42895638867/910, renop[2,4,1,1,2,1,1] = -\
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182, renop[4,1,1,1,1,2,1,1] = 126672755071/2730, renop[4,1,1,1,2,1,1,1] = 16773582207/364, renop[4,1,1,2,1,1,1,1] = 16724330433/364, renop[4,1,2,1,1,1,1,1] = 4181141560/91, renop[4,2,1,1,1,1,1,1] = 62996859857/1365, renop[5,1,1,1,1,1,1,1] = 4330843976/91, renop[1,1,1,1,1,1,1,4] = -632842560/13, renop[1,1,1,1,1,1,2,3] = -600770520/13, renop[1,1,1,1,1,1,3,2] = -578428200/13, renop[1,1,1,1,1,1,4,1] = -572334840/13, renop[1,1,1,1,1,2,1,3] = -4170644640/91, renop[1,1,1,1,1,2,2,2] = -3964518720/91, renop[1,1,1,1,1,2,3,1] = -3880063440/91, renop[1,1,1,1,1,3,1,2] = -3967607520/91, renop[1,1,1,1,1,3,2,1] = -3816846000/91, renop[1,1,1,1,1,4,1,1] = -3843958800/91, renop[1,1,1,1,2,1,1,3] = -593769240/13, renop[1,1,1,1,2,1,2,2] = -564099600/13, renop[1,1,1,1,2,1,3,1] = -551579820/13, renop[1,1,1,1,2,2,1,2] = -558814320/13, renop[1,1,1,1,2,2,2,1] = -537105360/13, renop[1,1,1,1,2,3,1,1] = -536624880/13, renop[1,1,1,1,3,1,1,2] = -\ 3930765000/91, renop[1,1,1,1,3,1,2,1] = -3774658140/91, 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renop[2,1,1,2,1,2,1,2,1] = -3819047504/91, renop[2,1,1,2,1,2,1,1,1] = -18963837251/455, renop[2,1,1,2,2,1,1,1,1] = -18915345951/455, renop[2,1,1,3,1,1,1,1] = -45744607169/1092, renop[2,1,2,1,1,1,1,2] = -20242646874/455, renop[2,1,2,1,1,1,2,1] = -58276964822/1365, renop[2,1,2,1,1,2,1,1] = -3826476926/91, renop[2,1,2,1,2,1,1,1] = -\ 56990389532/1365, renop[2,1,2,2,1,1,1,1] = -18934523109/455, renop[2,1,2,2,1,1,1,1] = -56782987337/1365, renop[2,1,3,1,1,1,1,1] = -19112520786/455, renop[2,2,1,1,1,1,1,2] = -20367754584/455, renop[2,2,1,1,1,1,2,1] = -58636171852/1365, renop[2,2,1,1,1,2,1,1] = -3849928900/91, renop[2,2,1,1,2,1,1,1] = -57335362342/1365, renop[2,2,1,2,1,1,1,1] = -\ 19045441644/455, renop[2,2,1,2,1,1,1,1] = -57074927167/1365, renop[2,2,2,1,1,1,1,1] = -19055061111/455, renop[2,3,1,1,1,1,1,1] = -231751034273/5460, renop[3,1,1,1,1,1,1,2] = -125773090801/2730, renop[3,1,1,1,1,1,2,1] = -241385412347/5460, renop[3,1,1,1,1,1,2,1,1] = -59433561457/1365, renop[3,1,1,1,1,2,1,1,1] = 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renop[1,1,1,2,2,1,1,1] = 2531109108/65, renop[1,1,1,2,2,1,1,1] = 17669003616/455, renop[1,1,1,3,1,1,1,1] = 2541647064/65, renop[1,1,2,1,1,1,1,1] = 539937462/13, renop[1,1,2,1,1,1,1,1] = 518159862/13, renop[1,1,2,1,1,1,1,1] = 510316884/13, renop[1,1,2,1,1,2,1,1] = 506653224/13, renop[1,1,2,1,2,1,1,1,1] = 3534352074/91, renop[1,1,2,2,1,1,1,1] = 504560562/13, renop[1,1,3,1,1,1,1,1] = 2544433848/65, renop[1,1,2,1,1,1,1,1,2] = 541879636/13, renop[1,1,2,1,1,1,1,2,1] = 1560047564/39, renop[1,1,2,1,1,1,2,1,1] = 512126640/13, renop[1,1,2,1,1,1,2,1,1,1] = 1525233356/39, renop[1,1,2,1,1,2,1,1,1] = 3545933280/91, renop[1,1,2,1,2,1,1,1,1] = 1517602304/39, renop[1,1,2,2,1,1,1,1,1] = 2531789528/65, renop[1,1,3,1,1,1,1,1,1] = 1023925563/26, renop[1,2,1,1,1,1,1,1,2] = 546668407/13, renop[1,2,1,1,1,1,1,2,1] = 524605951/13, renop[1,2,1,1,1,1,2,1,1] = 516638420/13, renop[1,2,1,1,1,2,1,1] = 512873802/13, renop[1,2,1,1,2,1,1,1,1] = 3576809034/91, renop[1,2,1,2,1,1,1,1] = 510177680/13, renop[1,2,1,2,1,1,1,1,1] = 2551563503/65, renop[1,2,2,1,1,1,1,1,1] = 1023561563/26, renop[1,3,1,1,1,1,1,1,1] = 3119513053/78, renop[2,1,1,1,1,1,1,1,2] = 19680720509/455, renop[2,1,1,1,1,1,1,2,1] = 56658452927/1365, renop[2,1,1,1,1,1,2,1,1] =

3719844400/91, renop[2,1,1,1,1,2,1,1,1] = 55390901642/1365, renop[2,1,1,1,2,1,1,1,1] = 18395019144/455, renop[2,1,1,1,
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2730, renop[2,2,1,1,1,1,1,1,1,1] = 55567796542/1365, renop[3,1,1,1,1,1,1,1,1,1] = 57175511663/1365, renop[1,1,1,1,1,1,1,1,
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490799100/13, renop[1,1,1,2,1,1,1,1,1,1] = -2453271348/65, renop[1,1,2,1,1,1,1,1,1,1] = -982576749/26, renop[1,1,2,1,1
,1,1,1,1,1,1] = -1479260429/39, renop[1,2,1,1,1,1,1,1,1,1,1] = -1989784845/52, renop[2,1,1,1,1,1,1,1,1,1,1] = -\
214876451093/5460, renop[1,1,1,1,1,1,1,1,1,1,1] = 479001600/13] : ###
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