

```

#####
#####
### File "c6_diripil_to_ripil_in_re_basis";
#####
#####
### restart;

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

heer:=proc(X): proc(p,q): if p+q<>add(op(k,X),k=1..nops(X)) then 0
elif nops(X)=1 and p<op(1,X) then p*a[q]
elif nops(X)=2 and op(1,X)<= q and q<op(2,X) then +a[q]
elif nops(X)=2 and op(2,X)<= q and q<op(1,X) then -a[q]
else 0 fi end: end;

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

Rep:=proc(X):
if nops(X)=1 and op(X)=1 then +a[1]
elif nops(X)=1 and op(X)>1 then
+1/summa(X)*a[op(-1,X)]
+1/summa(X)*add( rerep[p]*heer(X)(p,op(X)-p),p=1..op(X)-1)
elif nops(X)>1 and {op(X)} = {1} then 1/(nops(X))*a[1]^(nops(X))
elif nops(X)>1 and {op(X)} <> {1} then
+1/summa(X)*rerep[op(deb(X))]*a[op(-1,X)]
+1/summa(X)*add( add( rerep[seq(op(k,X),k=1..i-1),p,seq(op(k,X),k=i+1..nops(X))]*
heer([op(i,X)])(p,op(i,X)-p), p=1..op(i,X)-1),i=1..nops(X))
+1/summa(X)*add( add( rerep[seq(op(k,X),k=1..i-1),p,seq(op(k,X),k=i+2..nops(X))]*
heer([op(i,X),op(i+1,X)])(p,op(i,X)+op(i+1,X)-p), p=1..op(i,X)+op(i+1,X)-1),i=1..nops(X)-1)
fi end:
#####
sererop1:= [rerop[1] = 1/2] : ##

sererop2:= [rerop[2] = 5/12, rerop[1,1] = 1/4] : ##

sererop3:= [rerop[3] = 3/4, rerop[1,2] = 1/2, rerop[2,1] = 1/8, rerop[1,1,1] = 1/8] : ##

sererop4:= [rerop[4] = 251/120, rerop[1,3] = 35/24, rerop[2,2] = 25/48, rerop[3,1] = 1/24, rerop[1,1,2] = 7/16,
rerop[1,2,1] = 1/8, rerop[2,1,1] = 1/16, rerop[1,1,1,1] = 1/16] : ##

sererop5:= [rerop[5] = 95/12, rerop[1,4] = 17/3, rerop[2,3] = 9/4, rerop[3,2] = 7/8, rerop[4,1] = -7/16,
rerop[1,1,3] = 11/6, rerop[1,2,2] = 7/8, rerop[1,3,1] = -1/48, rerop[2,1,2] = 1/3, rerop[2,2,1] = 3/32,
rerop[3,1,1] = 1/16, rerop[1,1,1,2] = 1/3, rerop[1,1,2,1] = 3/32, rerop[1,2,1,1] = 1/16,
rerop[2,1,1,1] = 1/32, rerop[1,1,1,1,1] = 1/32] : ##

sererop6:=
[rerop[6] = 19087/504, rerop[1,5] = 1987/72, rerop[2,4] = 415/36, rerop[3,3] = 45/8, rerop[4,2] = 445/288,
rerop[5,1] = -277/72, rerop[1,1,4] = 671/72, rerop[1,2,3] = 365/72, rerop[1,3,2] = 605/288, rerop[1,4,1] = -59/36,
rerop[2,1,3] = 35/18, rerop[2,2,2] = 625/576, rerop[2,3,1] = -19/72, rerop[3,1,2] = 95/288, rerop[3,2,1] = 7/36,
rerop[4,1,3] = 835/288, rerop[1,1,1,3] = 15/8, rerop[1,1,2,2] = 65/64, rerop[1,1,3,1] = -1/8, rerop[1,2,1,2] = 15/32,
rerop[1,2,2,1] = 1/8, rerop[1,3,1,1] = 3/32, rerop[2,1,1,2] = 15/64, rerop[2,1,2,1] = 1/16, rerop[2,2,1,1] = 3/64,
rerop[3,1,1,1] = 1/32, rerop[1,1,1,1,2] = 15/64, rerop[1,1,1,2,1] = 1/16, rerop[1,1,2,1,1] = 3/64,
rerop[1,2,1,1,1] = 1/32, rerop[2,1,1,1,1] = 1/64, rerop[1,1,1,1,1,1] = 1/64] : ##

sererop7:=
[rerop[7] = 5257/24, rerop[1,6] = 647/4, rerop[2,5] = 3341/48, rerop[3,4] = 5359/144, rerop[4,3] = 5095/288, rerop[5,2] = -1/3,
rerop[6,1] = -4205/144, rerop[1,1,5] = 899/16, rerop[1,2,4] = 2333/72, rerop[1,3,3] = 5095/288, rerop[1,4,2] = 215/48,
rerop[1,5,1] = -2273/144, rerop[2,1,4] = 1829/144, rerop[2,2,3] = 4745/576, rerop[2,3,2] = 925/288, rerop[2,4,1] = -685/144,
rerop[3,1,3] = 835/288, rerop[3,2,2] = 20/9, rerop[3,3,1] = -65/72, rerop[4,1,2] = -5/18, rerop[4,2,1] = 695/576, rerop[5,1,1] = 167/144,
rerop[1,1,1,4] = 431/36, rerop[1,1,2,3] = 4325/576, rerop[1,1,3,2] = 925/288, rerop[1,1,4,1] = -475/144, rerop[1,2,1,3] = 1045/288,
rerop[1,2,2,2] = 20/9, rerop[1,2,3,1] = -65/72, rerop[1,3,1,2] = 65/144, rerop[1,3,2,1] = 275/576, rerop[1,4,1,1] = 31/72,
rerop[2,1,1,3] = 325/192, rerop[2,1,2,2] = 95/96, rerop[2,1,3,1] = -5/24, rerop[2,2,1,2] = 15/32, rerop[2,2,2,1] = 15/128,
rerop[2,3,1,1] = 3/32, rerop[3,1,1,2] = 5/16, rerop[3,1,2,1] = 5/64, rerop[3,2,1,1] = 1/16, rerop[4,1,1,1] = 3/64,
rerop[1,1,1,1,3] = 325/192, rerop[1,1,1,2,2] = 95/96, rerop[1,1,1,3,1] = -5/24, rerop[1,1,2,1,2] = 15/32,
rerop[1,1,2,2,1] = 15/128, rerop[1,1,3,1,1] = 3/32, rerop[1,2,1,1,2] = 5/16, rerop[1,2,1,2,1] = 5/64, rerop[1,2,2,1,1] = 1/16,
rerop[1,3,1,1,1] = 3/64, rerop[2,1,1,1,2] = 5/32, rerop[2,1,1,2,1] = 5/128, rerop[2,1,2,1,1] = 1/32, rerop[2,2,1,1,1] = 3/128,
rerop[3,1,1,1,1] = 1/64, rerop[1,1,1,1,1,2] = 5/32, rerop[1,1,1,1,2,1] = 5/128, rerop[1,1,1,2,1,1] = 1/32, rerop[1,1,2,1,1,1] = 3/128,
rerop[1,2,1,1,1,1] = 1/64, rerop[2,1,1,1,1,1] = 1/128, rerop[1,1,1,1,1,1,1] = 1/128] : ##

sererop8:=
[rerop[8] = 1070017/720, rerop[1,7] = 266131/240, rerop[2,6] = 233567/480, rerop[3,5] = 590009/2160, rerop[4,4] = 441007/2880,

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rerop[5,3] = 128191/2160, rerop[6,2] = -193403/4320, rerop[7,1] = -18617/80, rerop[1,1,6] = 37739/96, rerop[1,2,5] = 101185/432, rerop[1,3,4] = 245105/1728, rerop[1,4,3] = 10171/144, rerop[1,5,2] = -5047/864, rerop[1,6,1] = -6683/48, rerop[2,1,5] = 80857/864, rerop[2,2,4] = 74375/1152, rerop[2,3,3] = 31703/864, rerop[2,4,2] = 9275/1728, rerop[2,5,1] = -14225/288, rerop[3,1,4] = 44107/1728, rerop[3,2,3] = 9121/432, rerop[3,3,2] = 6755/864, rerop[3,4,1] = -2665/144, rerop[4,1,3] = 1813/1728, rerop[4,2,2] = 21875/3456, rerop[4,3,1] = -1585/1728, rerop[5,1,2] = -5803/864, rerop[5,2,1] = 4849/432, rerop[6,1,1] = 3229/288, rerop[1,1,1,5] = 75145/864, rerop[1,1,2,4] = 200557/3456, rerop[1,1,3,3] = 29323/864, rerop[1,1,4,2] = 13895/1728, rerop[1,1,5,1] = -10417/288, rerop[1,2,1,4] = 50771/1728, rerop[1,2,2,3] = 4543/216, rerop[1,2,3,2] = 6895/864, rerop[1,2,4,1] = -95/6, rerop[1,3,1,3] = 11333/1728, rerop[1,3,2,2] = 21595/3456, rerop[1,3,3,1] = -235/64, rerop[1,4,1,2] = -2471/864, rerop[1,4,2,1] = 169/36, rerop[1,5,1,1] = 1325/288, rerop[2,1,1,4] = 45871/3456, rerop[2,1,2,3] = 7861/864, rerop[2,1,3,2] = 6965/1728, rerop[2,1,4,1] = -1475/288, rerop[2,2,1,3] = 16513/3456, rerop[2,2,2,2] = 21875/6912, rerop[2,2,3,1] = -2255/1152, rerop[2,3,1,2] = -301/1728, rerop[2,3,2,1] = 97/96, rerop[2,4,1,1] = 185/192, rerop[3,1,1,3] = 1477/576, rerop[3,1,2,2] = 1715/1152, rerop[3,1,3,1] = -155/1728, rerop[3,2,1,2] = 301/288, rerop[3,2,2,1] = 23/216, rerop[3,3,1,1] = 65/864, rerop[4,1,1,2] = 973/1152, rerop[4,1,2,1] = 103/1728, rerop[4,2,1,1] = 125/3456, rerop[5,1,1,1] = 11/864, rerop[1,1,1,1,4] = 15197/1152, rerop[1,1,1,2,3] = 2597/288, rerop[1,1,1,3,2] = 2275/576, rerop[1,1,1,4,1] = -1405/288, rerop[1,1,2,1,3] = 5411/1152, rerop[1,1,2,2,2] = 7105/2304, rerop[1,1,2,3,1] = -1975/1152, rerop[1,1,3,1,2] = 133/576, rerop[1,1,3,2,1] = 221/288, rerop[1,1,4,1,1] = 415/576, rerop[1,2,1,1,3] = 539/192, rerop[1,2,1,2,2] = 665/384, rerop[1,2,1,3,1] = -95/192, rerop[1,2,2,1,2] = 77/96, rerop[1,2,2,2,1] = 3/16, rerop[1,2,3,1,1] = 5/32, rerop[1,3,1,1,2] = 77/128, rerop[1,3,1,2,1] = 9/64, rerop[1,3,2,1,1] = 15/128, rerop[1,4,1,1,1] = 3/32, rerop[2,1,1,1,3] = 539/384, rerop[2,1,1,2,2] = 665/768, rerop[2,1,1,3,1] = -95/384, rerop[2,1,2,1,2] = 77/192, rerop[2,1,2,2,1] = 3/32, rerop[2,1,3,1,1] = 5/64, rerop[2,2,1,1,2] = 77/256, rerop[2,2,1,2,1] = 9/128, rerop[2,2,2,1,1] = 15/256, rerop[2,3,1,1,1] = 3/64, rerop[3,1,1,1,2] = 77/384, rerop[3,1,1,2,1] = 3/64, rerop[3,1,2,1,1] = 5/128, rerop[3,2,1,1,1] = 1/32, rerop[4,1,1,1,1] = 3/128, rerop[1,1,1,1,2,2] = 665/768, rerop[1,1,1,1,3,1] = -95/384, rerop[1,1,1,2,1,2] = 77/192, rerop[1,1,1,2,2,1] = 3/32, rerop[1,1,1,3,1,1] = 5/64, rerop[1,1,2,1,1,2] = 77/256, rerop[1,1,2,1,2,1] = 9/128, rerop[1,1,2,2,1,1] = 15/256, rerop[1,1,3,1,1,1] = 3/64, rerop[1,2,1,1,1,2] = 77/384, rerop[1,2,1,1,2,1] = 3/64, rerop[1,2,1,2,1,1] = 5/128, rerop[2,1,1,1,1,2] = 77/768, rerop[2,1,1,2,1,1] = 3/128, rerop[2,1,2,1,1,1] = 5/256, rerop[2,1,2,1,1,1,1] = 1/64, rerop[2,2,1,1,1,1] = 3/256, rerop[3,1,1,1,1,1] = 1/128, rerop[1,1,1,1,1,2] = 77/768, rerop[1,1,1,1,2,1] = 3/128, rerop[1,1,1,2,1,1] = 5/256, rerop[1,1,1,2,1,1,1] = 1/64, rerop[1,1,2,1,1,1,1] = 3/256, rerop[1,2,1,1,1,1,1] = 1/128, rerop[2,1,1,1,1,1,1] = 1/256, rerop[1,1,1,1,1,1,1,1] = 1/256] : ##

sererop9:=
[rerop[9] = 231417/20, rerop[1,8] = 43534/5, rerop[2,7] = 38741/10, rerop[3,6] = 89639/40, rerop[4,5] = 27167/20, rerop[5,4] = 58247/80, rerop[6,3] = 1449/10, rerop[7,2] = -23539/40, rerop[8,1] = -323071/160, rerop[1,1,7] = 62701/20, rerop[1,2,6] = 76277/40, rerop[1,3,5] = 73073/60, rerop[1,4,4] = 58247/80, rerop[1,5,3] = 8561/30, rerop[1,6,2] = -10177/40, rerop[1,7,1] = -204823/160, rerop[2,1,6] = 3095/4, rerop[2,2,5] = 2205/4, rerop[2,3,4] = 42721/120, rerop[2,4,3] = 16345/96, rerop[2,5,2] = -935/16, rerop[2,6,1] = -31423/64, rerop[3,1,5] = 1883/8, rerop[3,2,4] = 31997/160, rerop[3,3,3] = 945/8, rerop[3,4,2] = 215/96, rerop[3,5,1] = -21511/96, rerop[4,1,4] = 1491/40, rerop[4,2,3] = 2135/32, rerop[4,3,2] = 2725/96, rerop[4,4,1] = -9765/128, rerop[5,1,3] = -777/16, rerop[5,2,2] = 855/32, rerop[5,3,1] = 2905/96, rerop[6,1,2] = -743/12, rerop[6,2,1] = 22057/192, rerop[7,1,1] = 3727/32, rerop[1,1,1,6] = 1425/2, rerop[1,1,2,5] = 11795/24, rerop[1,1,3,4] = 3213/10, rerop[1,1,4,3] = 15925/96, rerop[1,1,5,2] = -333/16, rerop[1,1,6,1] = -23583/64, rerop[1,2,1,5] = 6181/24, rerop[1,2,2,4] = 31297/160, rerop[1,2,3,3] = 2765/24, rerop[1,2,4,2] = 1055/96, rerop[1,2,5,1] = -17899/96, rerop[1,3,1,4] = 9163/120, rerop[1,3,2,3] = 6965/96, rerop[1,3,3,2] = 815/32, rerop[1,3,4,1] = -10325/128, rerop[1,4,1,3] = -455/48, rerop[1,4,2,2] = 715/32, rerop[1,4,3,1] = -427/96, rerop[1,5,1,2] = -159/4, rerop[1,5,2,1] = 10577/192, rerop[1,6,1,1] = 1767/32, rerop[2,1,1,5] = 917/8, rerop[2,1,2,4] = 40243/480, rerop[2,1,3,3] = 5005/96, rerop[2,1,4,2] = 1105/96, rerop[2,1,5,1] = -12607/192, rerop[2,2,1,4] = 22841/480, rerop[2,2,2,3] = 3535/96, rerop[2,2,3,2] = 2515/192, rerop[2,2,4,1] = -9345/256, rerop[2,3,1,3] = 595/96, rerop[2,3,2,2] = 1055/96, rerop[2,3,3,1] = -539/64, rerop[2,4,1,2] = -1285/96, rerop[2,4,2,1] = 1925/128, rerop[2,5,1,1] = 955/64, rerop[3,1,1,4] = 3773/160, rerop[3,1,2,3] = 525/32, rerop[3,1,3,2] = 425/48, rerop[3,1,4,1] = -3325/384, rerop[3,2,1,3] = 385/32, rerop[3,2,2,2] = 715/96, rerop[3,2,3,1] = -287/48, rerop[3,3,1,2] = -215/96, rerop[3,3,2,1] = 595/192, rerop[3,4,1,1] = 145/48, rerop[4,1,1,3] = 175/32, rerop[4,1,2,2] = 5/3, rerop[4,1,3,1] = 1253/384, rerop[4,2,1,2] = 565/96, rerop[4,2,2,1] = -1085/768, rerop[4,3,1,1] = -565/384, rerop[5,1,1,2] = 529/96, rerop[5,1,2,1] = -287/192, rerop[5,2,1,1] = -37/24, rerop[6,1,1,1] = -305/192, rerop[1,1,1,1,5] = 679/6, rerop[1,1,1,2,4] = 13181/160, rerop[1,1,1,3,3] = 4865/96, rerop[1,1,1,4,2] = 1105/96, rerop[1,1,1,5,1] = -11767/192, rerop[1,1,2,1,4] = 22141/480, rerop[1,1,2,2,3] = 3395/96, rerop[1,1,2,3,2] = 2515/192, rerop[1,1,2,4,1] = -8225/256, rerop[1,1,3,1,3] = 875/96, rerop[1,1,3,2,2] = 1055/96, rerop[1,1,3,3,1] = -539/64, rerop[1,1,4,1,2] = -865/96, rerop[1,1,4,2,1] = 1365/128, rerop[1,1,5,1,1] = 675/64, rerop[1,2,1,1,4] = 12719/480, rerop[1,2,1,2,3] = 1855/96, rerop[1,2,1,3,2] = 425/48, rerop[1,2,1,4,1] = -5005/384, rerop[1,2,2,1,3] = 1015/96, rerop[1,2,2,2,2] = 715/96, rerop[1,2,2,3,1] = -287/48, rerop[1,2,3,1,2] = -215/96, rerop[1,2,3,2,1] = 595/192, rerop[1,2,4,1,1] = 145/48, rerop[1,3,1,1,3] = 175/32, rerop[1,3,1,2,2] = 25/8, rerop[1,3,1,3,1] = 133/384, rerop[1,3,2,1,2] = 95/32, rerop[1,3,2,2,1] = 35/768, rerop[1,3,3,1,1] = -5/384, rerop[1,4,1,1,2] = 83/32, rerop[1,4,1,2,1] = -7/192, rerop[1,4,2,1,1] = -1/12, rerop[1,5,1,1,1] = -25/192, rerop[2,1,1,1,4] = 196/15, rerop[2,1,1,2,3] = 455/48, rerop[2,1,1,3,2] = 815/192, rerop[2,1,1,4,1] = -4585/768, rerop[2,1,2,1,3] = 245/48, rerop[2,1,2,1,3] = 245/48, rerop[2,1,2,2,2] = 85/24, rerop[2,1,2,2,2] = 85/24, rerop[2,1,2,3,1] = -469/192, rerop[2,1,3,1,2] = -5/24, rerop[2,1,3,2,1] = 385/384, rerop[2,1,4,1,1] = 185/192, rerop[2,2,1,1,3] = 105/32, rerop[2,2,1,2,2] = 135/64, rerop[2,2,1,3,1] = -189/256, rerop[2,2,2,1,2] = 15/16, rerop[2,2,2,2,1] = 105/512, rerop[2,2,3,1,1] = 45/256, rerop[2,3,1,1,2] = 3/4, rerop[2,3,1,2,1] = 21/128, rerop[2,3,2,1,1] = 9/64, rerop[2,4,1,1,1] = 15/128, rerop[3,1,1,1,3] = 35/16, rerop[3,1,1,2,2] 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rerop[4,1,1,1,1,1] = 3/256, rerop[1,1,1,1,1,1,3] = 35/32, rerop[1,1,1,1,1,2,2] = 45/64, rerop[1,1,1,1,1,3,1] = -63/256, rerop[1,1,1,1,2,1,2] = 5/16, rerop[1,1,1,1,2,2,1] = 35/512, rerop[1,1,1,1,3,1,1] = 15/256,

rerop[1,1,1,2,1,2] = 1/4, rerop[1,1,2,1,2,1] = 7/128, rerop[1,1,1,2,2,1,1] = 3/64, rerop[1,1,1,3,1,1,1] = 5/128, rerop[1,1,2,1,1,1,2] = 3/16, rerop[1,1,2,1,1,2,1] = 21/512, rerop[1,1,2,1,2,1,1,1] = 9/256, rerop[1,1,2,2,1,1,1,1] = 15/512, rerop[1,1,1,1,1,1,1] = 3/128, rerop[1,2,1,1,1,1,1,2] = 1/8, rerop[1,2,1,1,1,2,1,1] = 7/256, rerop[1,2,1,2,1,1,1,1] = 3/128, rerop[1,2,1,1,1,1,1,1] = 5/256, rerop[1,2,2,1,1,1,1,1] = 1/64, rerop[1,3,1,1,1,1,1,1] = 3/256, rerop[2,1,1,1,1,1,1,2] = 1/16, rerop[2,1,1,1,1,2,1,1] = 7/512, rerop[2,1,1,2,1,1,1,1] = 3/256, rerop[2,1,2,1,1,1,1,1] = 5/512, rerop[2,1,2,1,1,1,1,1] = 1/128, rerop[2,2,1,1,1,1,1,1] = 3/512, rerop[3,1,1,1,1,1,1,1] = 1/256, rerop[1,1,1,1,1,1,1,2] = 1/16, rerop[1,1,1,1,1,2,1,1] = 7/512, rerop[1,1,1,1,2,1,1,1] = 3/256, rerop[1,1,1,2,1,1,1,1] = 5/512, rerop[1,1,1,2,1,1,1,1] = 1/128, rerop[1,1,2,1,1,1,1,1] = 3/512, rerop[1,2,1,1,1,1,1,1] = 1/256, rerop[2,1,1,1,1,1,1,1] = 1/512, rerop[1,1,1,1,1,1,1,1] = 1/512] : ##

sererop10:=

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rerop[1,2,3,1,1,1,1] = 5/128, rerop[1,3,1,1,1,1,2] = 117/512, rerop[1,3,1,1,1,2,1] = 3/64, rerop[1,3,1,1,2,1,1] = 21/512, rerop[1,3,1,2,1,1,1] = 9/256, rerop[1,3,2,1,1,1,1] = 15/512, rerop[1,4,1,1,1,1,1] = 3/128, rerop[2,1,1,1,1,1,3] = 13/16, rerop[2,1,1,1,1,2,2] = 553/1024, rerop[2,1,1,1,1,3,1] = -7/32, rerop[2,1,1,1,2,1,2] = 117/512, rerop[2,1,1,1,2,2,1] = 3/64, rerop[2,1,1,1,3,1,1] = 21/512, rerop[2,1,1,1,3,1,1,1] = 15/512, rerop[2,1,1,2,1,1,2] = 39/256, rerop[2,1,1,2,1,1,2,1] = 5/128, rerop[2,1,1,2,1,1,2,1,1] = 1/32, rerop[2,1,2,1,2,1,1] = 7/256, rerop[2,1,2,2,1,1,1] = 3/128, rerop[2,1,3,1,1,1,1] = 5/256, rerop[2,2,1,1,1,1,2] = 117/1024, rerop[2,2,1,1,1,2,1] = 3/128, rerop[2,2,1,1,2,1,1] = 21/1024, rerop[2,2,1,2,1,1,1] = 9/512, rerop[2,2,2,1,1,1,1] = 15/1024, rerop[2,3,1,1,1,1,1] = 3/256, rerop[3,1,1,1,1,1,2] = 39/512, rerop[3,1,1,1,2,1,1] = 1/64, rerop[3,1,1,1,2,1,1,1] = 7/512, rerop[3,1,1,2,1,1,1] = 3/256, rerop[3,1,2,1,1,1,1] = 5/512, rerop[3,2,1,1,1,1,1] = 1/128, rerop[4,1,1,1,1,1,1] = 3/512, rerop[1,1,1,1,1,1,1,3] = 13/16, rerop[1,1,1,1,1,1,2,2] = 553/1024, rerop[1,1,1,1,1,1,3,1] = -7/32, rerop[1,1,1,1,1,2,1,2] = 117/512, rerop[1,1,1,1,1,2,2,1] = 3/64, rerop[1,1,1,1,1,3,1,1] = 21/512, rerop[1,1,1,1,2,1,1,2] = 195/1024, rerop[1,1,1,1,2,1,1,2,1] = 5/128, rerop[1,1,1,1,1,2,2,1,1] = 15/512, rerop[1,1,1,1,2,1,1,1,2] = 39/256, rerop[1,1,1,1,2,1,1,1,2,1] = 1/32, rerop[1,1,1,1,2,1,2,1,1] = 7/256, rerop[1,1,1,1,2,2,1,1,1] = 3/128, rerop[1,1,1,1,2,2,1,1,1,1] = 5/256, rerop[1,1,1,1,3,1,1,1,1] = 5/256, rerop[1,1,2,1,1,1,1,1,2] = 117/1024, rerop[1,1,2,1,1,1,1,2,1] = 3/128, rerop[1,1,2,1,1,1,2,1,1] = 21/1024, rerop[1,1,2,1,2,1,1,1] = 9/512, rerop[1,1,2,1,1,1,1,1,2] = 1/64, rerop[1,1,2,1,1,1,2,1,1] = 7/512, rerop[1,1,2,1,1,2,1,1,1] = 3/256, rerop[1,1,2,1,2,1,1,1,1] = 5/512, rerop[1,1,2,1,2,1,1,1,1,1] = 1/128, rerop[1,3,1,1,1,1,1,1,1] = 3/512, rerop[2,1,1,1,1,1,1,1,2] = 39/1024, rerop[2,1,1,1,1,1,2,1,1] = 1/128, rerop[2,1,1,1,1,2,1,1] = 7/1024, 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sererop12:=

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1,2,2,1,3] = 44275/1024, rerop[1,2,1,2,2,2,2] = 71225/2048, rerop[1,2,1,2,2,3,1] = -137725/3072, rerop[1,2,1,2,3,1,2] = -\ 9625/256, rerop[1,2,1,2,3,2,1] = 5075/192, rerop[1,2,1,2,4,1,1] = 20195/768, rerop[1,2,1,3,1,1,3] = 4675/512, rerop[1,2,1,3,1,2,2] = 1925/1024, rerop[1,2,1,3,1,3,1] = 25675/1536, rerop[1,2,1,3,2,1,2] = 1375/64, rerop[1,2,1,3,2,2,1] = -1475/384, rerop[1,2,1,3,3,1,1] = -95/24, rerop[1,2,1,4,1,1,2] = 21175/1024, rerop[1,2,1,4,1,2,1] = -6125/1536, rerop[1,2,1,4,2,1,1] = -12565/3072, rerop[1,2,1,5,1,1,1] = -805/192, rerop[1,2,2,1,1,1,4] = 51799/768, rerop[1,2,2,1,1,2,3] = 5225/96, rerop[1,2,2,1,1,3,2] = 5005/192, rerop[1,2,2,1,1,4,1] = -4375/96, rerop[1,2,2,1,2,1,3] = 23485/768, rerop[1,2,2,1,2,2,2] = 36575/1536, rerop[1,2,2,2,1,1,1] = -18305/768, rerop[1,2,2,2,1,1,2] = -1925/192, rerop[1,2,2,2,1,3,2,1] = 875/96, rerop[1,2,2,2,1,4,1,1] = 1729/192, rerop[1,2,2,2,1,1,3] = 2475/128, rerop[1,2,2,2,1,2,2] = 3465/256, rerop[1,2,2,2,1,3,1] = -855/128, rerop[1,2,2,2,2,1,2] = 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rerop[1,4,1,2,2,1,1] = 189/512, rerop[1,4,1,3,1,1,1] = 21/64, rerop[1,4,2,1,1,1,2] = 495/256, rerop[1,4,2,1,1,2,1] = 45/128, rerop[1,4,2,1,2,1,1] = 81/256, rerop[1,4,2,2,1,1,1] = 9/32, rerop[1,4,3,1,1,1,1] = 63/256, rerop[1,5,1,1,1,1,2] = 825/512, rerop[1,5,1,1,1,2,1] = 75/256, rerop[1,5,1,1,2,1,1] = 135/512, rerop[1,5,1,2,1,1,1] = 15/64, rerop[1,5,2,1,1,1,1] = 105/512, rerop[1,6,1,1,1,1,1] = 45/256, rerop[2,1,1,1,1,1,5] = 4137/128, rerop[2,1,1,1,1,2,4] = 684761/6144, rerop[2,1,1,1,1,3,3] = 7315/96, rerop[2,1,1,1,4,2] = 8855/512, rerop[2,1,1,1,5,1] = -44303/384, rerop[2,1,1,1,2,1,4] = 218537/3072, rerop[2,1,1,1,2,2,3] = 47135/768, rerop[2,1,1,1,2,3,2] = 4235/192, rerop[2,1,1,1,2,4,1] = -19915/256, rerop[2,1,1,1,3,1,3] = 22715/3072, rerop[2,1,1,1,3,2,2] = 125125/6144, rerop[2,1,1,1,3,3,1] = -26005/1024, rerop[2,1,1,1,4,1,2] = -7315/192, rerop[2,1,1,1,4,2,1] = 8295/256, rerop[2,1,1,1,5,1,1] = 4137/128, rerop[2,1,1,2,1,1,4] = 91465/2048, rerop[2,1,1,2,1,2,3] = 4675/128, rerop[2,1,1,2,1,3,2] = 9625/512, rerop[2,1,1,2,1,4,1] = -13825/384, rerop[2,1,1,2,2,1,3] = 44275/2048, rerop[2,1,1,2,2,2,2] = 71225/4096, rerop[2,1,1,2,3,1,1] = -137725/6144, rerop[2,1,1,2,3,1,2] = -9625/512, rerop[2,1,1,2,3,2,1] = 5075/384, rerop[2,1,1,2,4,1,1] = 20195/1536, rerop[2,1,1,3,1,1,3] = 4675/1024, rerop[2,1,1,3,1,2,2] = 1925/2048, rerop[2,1,1,3,1,3,1] = 25675/3072, rerop[2,1,1,3,2,1,2] = 1375/128, rerop[2,1,1,3,2,2,1] = -1475/768, rerop[2,1,1,3,3,1,1] = -95/48, rerop[2,1,1,4,1,1,2] = 21175/2048, rerop[2,1,1,4,1,2,1] = -6125/3072, rerop[2,1,1,4,2,1,1] = -12565/6144, rerop[2,1,1,5,1,1,1] = -805/384, rerop[2,1,2,1,1,1,4] = 51799/1536, rerop[2,1,2,1,1,2,3] = 5225/192, rerop[2,1,2,1,1,3,2] = 5005/384, rerop[2,1,2,1,1,4,1] = -4375/192, rerop[2,1,2,1,2,1,3] = 23485/1536, rerop[2,1,2,1,2,2,2] = 36575/3072, rerop[2,1,2,1,2,3,1] = -18305/1536, rerop[2,1,2,1,3,1,2] = -1925/384, rerop[2,1,2,1,3,2,1] = 875/192, rerop[2,1,2,1,4,1,1] = 1729/384, rerop[2,1,2,2,1,1,3] = 2475/256, rerop[2,1,2,2,1,2,2] = 3465/512, rerop[2,1,2,2,1,3,1] = -855/256, rerop[2,1,2,2,2,1,2] = 165/64, rerop[2,1,2,2,2,2,1] = 15/32, rerop[2,1,2,2,3,1,1] = 27/64, rerop[2,1,2,3,1,1,2] = 1155/512, rerop[2,1,2,3,1,2,1] = 105/256, rerop[2,1,2,3,2,1,1] = 189/512, rerop[2,1,2,4,1,1,1] = 21/64, rerop[2,1,3,1,1,1,3] = 4125/512, rerop[2,1,3,1,1,2,2] = 5775/1024, rerop[2,1,3,1,1,3,1] = -1425/512, rerop[2,1,3,1,2,1,2] = 275/128, rerop[2,1,3,1,2,2,1] = 25/64, rerop[2,1,3,1,3,1,1] = 45/128, rerop[2,1,3,2,1,1,2] = 1925/1024, rerop[2,1,3,2,1,2,1] = 175/512, rerop[2,1,3,2,2,1,1] = 315/1024, rerop[2,1,3,3,1,1,1] = 35/128, rerop[2,1,4,1,1,1,2] = 825/512, rerop[2,1,4,1,1,2,1] = 75/256, rerop[2,1,4,1,2,1,1] = 135/512, rerop[2,1,4,2,1,1,1] = 15/64, rerop[2,1,5,1,1,1,1] = 105/512, rerop[2,2,1,1,1,1,4] = 51799/2048, rerop[2,2,1,1,1,2,3] = 5225/256, rerop[2,2,1,1,1,3,2] = 5005/512, rerop[2,2,1,1,1,4,1] = -4375/256, rerop[2,2,1,1,2,1,3] = 23485/2048, rerop[2,2,1,1,2,2,2] = 36575/4096, rerop[2,2,1,1,2,3,1] = 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3465/1024, rerop[2,3,1,1,1,3,1] = -855/512, rerop[2,3,1,1,2,1,2] = 165/128, rerop[2,3,1,1,2,2,1] = 15/64, rerop[2,3,1,1,3,1,1] = 27/128, rerop[2,3,1,2,1,1,2] = 1155/1024, rerop[2,3,1,2,1,2,1] = 105/512, rerop[2,3,1,2,2,1,1] = 189/1024, rerop[2,3,1,3,1,1,1] = 21/128, rerop[2,3,2,1,1,1,2] = 495/512, rerop[2,3,2,1,1,2,1] = 45/256, rerop[2,3,2,1,2,1,1] = 81/512, rerop[2,3,2,2,1,1,1] = 9/64, rerop[2,3,3,1,1,1,1] = 63/512, rerop[2,4,1,1,1,1,2] = 825/1024, rerop[2,4,1,1,1,2,1] = 75/512, rerop[2,4,1,1,2,1,1] = 135/1024, rerop[2,4,1,2,1,1,1] = 15/128, rerop[2,4,2,1,1,1,1] = 105/1024, rerop[2,5,1,1,1,1,1] = 45/512, rerop[3,1,1,1,1,1,4] = 51799/3072, rerop[3,1,1,1,1,2,3] = 5225/384, rerop[3,1,1,1,1,3,2] = 5005/768, rerop[3,1,1,1,1,4,1] = -4375/384, rerop[3,1,1,1,2,1,3] = 23485/3072, rerop[3,1,1,1,2,2,2] = 36575/6144, rerop[3,1,1,1,2,3,1] = -18305/3072, rerop[3,1,1,1,3,1,2] = -1925/768, rerop[3,1,1,1,3,2,1] = 875/384, rerop[3,1,1,1,4,1,1] = 1729/768, rerop[3,1,1,2,1,1,3] = 2475/512, rerop[3,1,1,2,1,2,2] = 3465/1024, rerop[3,1,1,2,1,3,1] = -855/512, rerop[3,1,1,2,2,1,2] = 165/128, rerop[3,1,1,2,2,2,1] = 15/64, rerop[3,1,1,2,3,1,1] = 27/128, rerop[3,1,1,3,1,1,2] = 1155/1024, rerop[3,1,1,3,1,2,1] = 105/512, rerop[3,1,1,3,2,1,1] = 189/1024, rerop[3,1,1,4,1,1,1] = 21/128, rerop[3,1,2,1,1,1,3] = 4125/1024, rerop[3,1,2,1,1,2,2] = 5775/2048, rerop[3,1,2,1,3,1,1] = -1425/1024, rerop[3,1,2,1,2,1,2] = 275/256, rerop[3,1,2,1,2,2,1] = 25/128, rerop[3,1,2,1,3,1,1] = 45/256, rerop[3,1,2,2,1,1,2] = 1925/2048, rerop[3,1,2,2,1,2,1] = 175/1024, rerop[3,1,2,2,2,1,1] = 315/2048, rerop[3,1,2,3,1,1,1] = 35/256, rerop[3,1,3,1,1,1,2] = 825/1024, rerop[3,1,3,1,1,2,1] = 75/512, rerop[3,1,3,1,2,1,1] = 135/1024, rerop[3,1,3,2,1,1,1] = 15/128, rerop[3,1,4,1,1,1,1] = 105/1024, rerop[3,2,1,1,1,1,3] = 825/256, rerop[3,2,1,1,1,2,2] = 1155/512, rerop[3,2,1,1,1,3,1] = -285/256, rerop[3,2,1,1,2,1,2] = 55/64, rerop[3,2,1,1,2,2,1] = 5/32, rerop[3,2,1,1,3,1,1] = 9/64, rerop[3,2,1,2,1,1,2] = 385/512, rerop[3,2,1,2,1,2,1] = 35/256, rerop[3,2,1,2,2,1,1] = 63/512, rerop[3,2,1,3,1,1,1] = 7/64, rerop[3,2,2,1,1,1,2] = 165/256, rerop[3,2,2,1,1,2,1] = 15/128, rerop[3,2,2,1,2,1,1] = 27/256, rerop[3,2,2,2,1,1,1] = 3/32, rerop[3,2,3,1,1,1,1] = 21/256, rerop[3,3,1,1,1,1,2] = 275/512, rerop[3,3,1,1,1,2,1] = 25/256, rerop[3,3,1,1,2,1,1] = 45/512, rerop[3,3,1,2,1,1,1] = 5/64, rerop[3,3,2,1,1,1,1] = 35/512, rerop[3,4,1,1,1,1,1] = 15/256, rerop[4,1,1,1,1,1,3] = 2475/1024, rerop[4,1,1,1,2,2,1] = 3465/2048, rerop[4,1,1,1,3,1,1] = -855/1024, rerop[4,1,1,1,2,1,2] = 165/256, rerop[4,1,1,1,2,2,1] = 15/128, rerop[4,1,1,1,3,1,1] = 27/256, rerop[4,1,1,2,1,1,2] = 1155/2048, rerop[4,1,1,2,1,2,1] = 105/1024, rerop[4,1,1,2,2,1,1] = 189/2048, rerop[4,1

,1,3,1,1,1] = 21/256, rerop[4,1,2,1,1,2] = 495/1024, rerop[4,1,2,1,1,2,1] = 45/512, rerop[4,1,2,1,2,1,1] = 81/1024, rerop[4,1,2,2,1,1,1] = 9/128, rerop[4,1,3,1,1,1,1] = 63/1024, rerop[4,2,1,1,1,2] = 825/2048, rerop[4,2,1,1,1,2,1] = 75/1024, rerop[4,2,1,1,2,1,1] = 135/2048, rerop[4,2,1,2,1,1,1] = 15/256, rerop[4,2,2,1,1,1,1] = 105/2048, rerop[4,3,1,1,1,1,1] = 45/1024, rerop[5,1,1,1,1,2] = 165/512, rerop[5,1,1,1,2,1,1] = 15/256, rerop[5,1,1,2,1,1,1] = 27/512, rerop[5,1,2,1,1,1,1] = 3/64, rerop[5,1,2,1,1,1,1] = 21/512, rerop[5,2,1,1,1,1,1] = 9/256, rerop[6,1,1,1,1,1,1] = 15/512, rerop[1,1,1,1,1,1,1,5] = 17127/128, rerop[1,1,1,1,1,2,4] = 684761/6144, rerop[1,1,1,1,1,3,3] = 7315/96, rerop[1,1,1,1,1,4,2] = 8855/512, rerop[1,1,1,1,1,5,1] = -44303/384, rerop[1,1,1,1,2,1,4] = 218537/3072, rerop[1,1,1,1,2,2,3] = 47135/768, rerop[1,1,1,1,2,3,2] = 4235/192, rerop[1,1,1,1,2,4,1] = -19915/256, rerop[1,1,1,1,3,1,3] = 22715/3072, rerop[1,1,1,1,3,2,2] = 125125/6144, rerop[1,1,1,1,3,3,1] = -26005/1024, rerop[1,1,1,1,4,1,2] = -7315/192, rerop[1,1,1,1,4,2,1] = 8295/256, rerop[1,1,1,1,5,1,1] = 4137/128, rerop[1,1,1,2,1,1,4] = 91465/2048, rerop[1,1,1,2,1,2,3] = 4675/128, rerop[1,1,1,2,1,3,2] = 9625/512, rerop[1,1,1,2,1,4,1] = -13825/384, rerop[1,1,1,2,2,1,3] = 44275/2048, rerop[1,1,1,2,2,2,2] = 71225/4096, rerop[1,1,1,2,2,3,1] = -137725/6144, rerop[1,1,1,2,3,1,2] = -9625/512, rerop[1,1,1,2,3,2,1] = 5075/384, rerop[1,1,1,2,4,1,1] = 20195/1536, rerop[1,1,1,3,1,1,3] = 4675/1024, rerop[1,1,1,3,1,2,2] = 1925/2048, rerop[1,1,1,3,1,3,1] = 25675/3072, rerop[1,1,1,3,2,1,2] = 1375/128, rerop[1,1,1,3,2,2,1] = -1475/768, rerop[1,1,1,3,3,1,1] = -95/48, rerop[1,1,1,4,1,1,2] = 21175/2048, rerop[1,1,1,4,1,2,1] = -6125/3072, rerop[1,1,1,4,2,1,1] = -12565/6144, rerop[1,1,1,5,1,1,1] = -805/384, rerop[1,1,2,1,1,4] = 51799/1536, rerop[1,1,2,1,2,3] = 5225/192, rerop[1,1,2,1,3,2] = 5005/384, rerop[1,1,2,1,4,1] = -4375/192, rerop[1,1,2,1,2,1,3] = 23485/1536, rerop[1,1,2,1,2,2,2] = 36575/3072, rerop[1,1,2,1,2,3,1] = -18305/1536, rerop[1,1,2,1,3,1,2] = -1925/384, rerop[1,1,2,1,3,2,1] = 875/192, rerop[1,1,2,1,4,1,1] = 1729/384, rerop[1,1,2,2,1,1,3] = 2475/256, rerop[1,1,2,2,1,2,2] = 3465/512, rerop[1,1,2,2,1,3,1] = -855/256, rerop[1,1,2,2,2,1,2] = 165/64, rerop[1,1,2,2,2,2,1] = 15/32, rerop[1,1,2,2,3,1,1] = 27/64, rerop[1,1,2,3,1,1,2] = 1155/512, rerop[1,1,2,3,1,2,1] = 105/256, rerop[1,1,2,3,2,1,1] = 189/512, rerop[1,1,2,4,1,1,1] = 21/64, rerop[1,1,3,1,1,1,3] = 4125/512, rerop[1,1,3,1,2,2] = 5775/1024, rerop[1,1,3,1,3,1,1] = -1425/512, rerop[1,1,3,1,2,1,2] = 275/128, rerop[1,1,3,1,2,2,1] = 25/64, rerop[1,1,3,1,3,1,1] = 45/128, rerop[1,1,3,2,1,1,2] = 1925/1024, rerop[1,1,3,2,1,2,1] = 175/512, rerop[1,1,3,2,2,1,1] = 315/1024, rerop[1,1,3,3,1,1,1] = 35/128, rerop[1,1,4,1,1,1,2] = 825/512, rerop[1,1,4,1,1,2,1] = 75/256, rerop[1,1,4,1,2,1,1] = 135/512, rerop[1,1,4,2,1,1,1] = 15/64, rerop[1,1,5,1,1,1,1] = 105/512, rerop[1,1,5,1,1,1,1,1] = 51799/2048, rerop[1,1,2,1,1,2,3] = 5225/256, rerop[1,1,2,1,1,3,2] = 5005/512, rerop[1,1,2,1,1,4,1] = -4375/256, rerop[1,1,2,1,2,1,3] = 23485/2048, rerop[1,1,2,1,2,2,2] = 36575/4096, rerop[1,1,2,1,2,3,1] = -18305/2048, rerop[1,1,2,1,3,1,2] = -1925/512, rerop[1,1,2,1,3,2,1] = 875/256, rerop[1,1,2,1,4,1,1] = 1729/512, rerop[1,1,2,1,2,1,3] = 7425/1024, rerop[1,1,2,1,2,1,2,2] = 10395/2048, rerop[1,1,2,1,2,1,3,1] = -2565/1024, rerop[1,1,2,1,2,2,1,2] = 495/256, rerop[1,1,2,1,2,2,2,1] = 45/128, rerop[1,1,2,1,2,3,1,1] = 81/256, rerop[1,1,2,1,3,1,1,2] = 3465/2048, rerop[1,1,2,1,3,1,2,1] = 315/1024, rerop[1,1,2,1,3,2,1,1] = 567/2048, rerop[1,1,2,1,4,1,1,1] = 63/256, rerop[1,1,2,2,1,1,3] = 12375/2048, rerop[1,1,2,2,1,2,2] = 17325/4096, rerop[1,1,2,2,1,1,3,1] = -4275/2048, rerop[1,1,2,2,1,2,1,2] = 825/512, rerop[1,1,2,2,1,2,2,1] = 75/256, rerop[1,1,2,2,1,3,1,1] = 135/512, rerop[1,1,2,2,1,1,2] = 5775/4096, rerop[1,1,2,2,2,1,2,1] = 525/2048, rerop[1,1,2,2,2,1,1,1] = 945/4096, rerop[1,1,2,2,3,1,1,1] = 105/512, rerop[1,1,2,3,1,1,1,2] = 2475/2048, rerop[1,1,2,3,1,1,2,1] = 225/1024, rerop[1,1,2,3,1,2,1,1] = 405/2048, rerop[1,1,2,3,2,1,1,1] = 45/256, rerop[1,1,2,4,1,1,1,1] = 315/2048, rerop[1,1,3,1,1,1,1,3] = 2475/512, rerop[1,1,3,1,1,2,2] = 3465/1024, rerop[1,1,3,1,1,3,1] = -855/512, rerop[1,1,3,1,1,2,1,2] = 165/128, rerop[1,1,3,1,1,2,2,1] = 15/64, rerop[1,1,3,1,1,3,1,1] = 27/128, rerop[1,1,3,1,2,1,1,2] = 1155/1024, rerop[1,1,3,1,2,1,2,1] = 105/512, rerop[1,1,3,1,2,2,1,1] = 189/1024, rerop[1,1,3,1,3,1,1,1] = 21/128, rerop[1,1,3,2,1,1,1,2] = 495/512, rerop[1,1,3,2,1,1,2,1] = 45/256, rerop[1,1,3,2,1,2,1,1] = 81/512, rerop[1,1,3,2,2,1,1,1] = 9/64, rerop[1,1,3,3,1,1,1,1] = 63/512, rerop[1,1,4,1,1,1,1,2] = 825/1024, rerop[1,1,4,1,1,1,2,1] = 75/512, rerop[1,1,4,1,2,1,1,1] = 135/1024, rerop[1,1,4,2,1,1,1,1] = 15/128, rerop[1,1,4,2,1,1,1,1] = 105/1024, rerop[1,1,5,1,1,1,1,1] = 45/512, rerop[1,2,1,1,1,1,4] = 51799/3072, rerop[1,2,1,1,1,1,2,3] = 5225/384, rerop[1,2,1,1,1,3,2] = 5005/768, rerop[1,2,1,1,1,4,1] = -4375/384, rerop[1,2,1,1,1,2,1,3] = 23485/3072, rerop[1,2,1,1,2,2,2] = 36575/6144, rerop[1,2,1,1,2,3,1] = -18305/3072, rerop[1,2,1,1,3,1,2] = -1925/768, rerop[1,2,1,1,3,2,1] = 875/384, rerop[1,2,1,1,4,1,1] = 1729/768, rerop[1,2,1,1,2,1,3] = 2475/512, rerop[1,2,1,2,1,2,2] = 3465/1024, rerop[1,2,1,2,1,3,1] = -855/512, rerop[1,2,1,2,2,1,2] = 165/128, rerop[1,2,1,2,2,2,1] = 15/64, rerop[1,2,1,2,3,1,1] = 27/128, rerop[1,2,1,3,1,1,2] = 1155/1024, rerop[1,2,1,3,1,2,1] = 105/512, rerop[1,2,1,3,2,1,1] = 189/1024, rerop[1,2,1,4,1,1,1] = 21/128, rerop[1,2,1,2,1,1,3] = 4125/1024, rerop[1,2,1,2,1,1,2,2] = 5775/2048, rerop[1,2,1,2,1,3,1,1] = -1425/1024, rerop[1,2,1,2,1,2,1,2] = 275/256, rerop[1,2,1,2,1,2,2,1] = 25/128, rerop[1,2,1,2,3,1,1] = 45/256, rerop[1,2,1,2,2,1,1,2] = 1925/2048, rerop[1,2,1,2,2,1,2,1] = 175/1024, rerop[1,2,1,2,2,2,1,1] = 315/2048, rerop[1,2,1,2,3,1,1,1] = 35/256, rerop[1,2,1,3,1,1,1,2] = 825/1024, rerop[1,2,1,3,1,1,2,1] = 75/512, rerop[1,2,1,3,1,2,1,1] = 135/1024, rerop[1,2,1,3,2,1,1,1] = 15/128, rerop[1,2,1,4,1,1,1,1] = 105/1024, rerop[1,2,2,1,1,1,1,3] = 825/256, rerop[1,2,2,1,1,1,2,2] = 1155/512, rerop[1,2,2,1,1,3,1,1] = -285/256, rerop[1,2,2,1,1,2,1,2] = 55/64, rerop[1,2,2,1,1,2,2,1] = 5/32, rerop[1,2,2,1,2,2,1,1,3,1,1] = 9/64, rerop[1,2,2,1,2,1,1,2] = 385/512, rerop[1,2,2,1,2,1,2,1] = 35/256, rerop[1,2,2,1,2,2,1,1] = 63/512, rerop[1,2,2,1,3,1,1,1] = 7/64, rerop[1,2,2,1,1,1,2] = 165/256, rerop[1,2,2,1,1,2,1] = 15/128, rerop[1,2,2,1,2,1,1] = 27/256, rerop[1,2,2,2,1,1,1] = 3/32, rerop[1,2,3,1,1,1,1,1] = 21/256, rerop[1,2,3,1,1,1,2] = 275/512, rerop[1,2,3,1,1,2,1] = 25/256, rerop[1,2,3,1,1,2,1,1] = 45/512, rerop[1,2,3,1,2,1,1,1] = 5/64, rerop[1,2,3,2,1,1,1,1] = 35/512, rerop[1,2,4,1,1,1,1,1] = 15/256, rerop[1,3,1,1,1,1,3] = 2475/1024, rerop[1,3,1,1,1,2,2] = 3465/2048, rerop[1,3,1,1,1,3,1] = -855/1024, rerop[1,3,1,1,1,2,1,2] = 165/256, rerop[1,3,1,1,1,2,2,1] = 15/128, rerop[1,3,1,1,3,1,1] = 27/256, rerop[1,3,1,1,2,1,1,2] = 1155/2048, rerop[1,3,1,1,2,1,2,1] = 189/2048, rerop[1,3,1,1,3,1,1,1] = 21/256, rerop[1,3,1,2,1,1,1,2] = 495/1024, rerop[1,3,1,2,1,1,2,1] = 45/512, rerop[1,3,1,2,1,2,1,1] = 81/1024, rerop[1,3,1,2,2,1,1,1] = 9/128, rerop[1,3,1,3,1,1,1,1] = 63/1024, rerop[1,3,2,1,1,1,1,2] = 825/2048, rerop[1,3,2,1,1,1,2,1] = 75/1024, rerop[1,3,2,1,1,2,1,1] = 135/2048, rerop[1,3,2,1,2,1,1,1] = 15/256, rerop[1,3,2,2,1,1,1,1] = 105/2048, rerop[1,3,3,1,1,1,1,1] = 45/1024, rerop[1,4,1,1,1,1,2] = 165/512, rerop[1,4,1,1,1,2,1] = 15/256, rerop[1,4,1,1,2,1,1] = 27/512, rerop[1,4,1,1,2,1,1,1] = 3/64, rerop[1,4,1,2,1,1,1,1] = 21/512, rerop[1,4,2,1,1,1,1,1] = 9/256, rerop[1,5,1,1,1,1,1,1] = 15/512, rerop[2,1,1,1,1,1,1,4] = 51799/6144, rerop[2,1,1,1,1,2,3] = 5225/768, rerop[2,1,1,1,1,3,2] = 5005/1536, rerop[2,1,1,1,1,4,1] = -4375/768, rerop[2,1,1,1,2,1,3] = 23485/6144, rerop[2,1,1,1,2,2,2] = 36575/12288, rerop[2,1,1,1,2,3,1] = -18305/6144, rerop[2,1,1,1,3,1,2] = -1925/1536, rerop[2,1,1,1,3,2,1] = 875/768, rerop[2,1,1,1,4,1,1] = 1729/1536, rerop[2,1,1,2,1,1,3] = 2475/1024, rerop[2,1,1,2,1,2,2] = 3465/2048, rerop[2,1,1,2,1,3,1] = -855/1024, rerop[2,1,1,2,2,1,2] = 165/256, rerop[2,1,1,2,2,2,1] = 15/128, rerop[2,1,1,2,3,1,1] = 27/256, rerop[2,1,1,3,1,1,2] = 105/1024, rerop[2,1,1,3,2,1,1] = 189/2048, rerop[2,1,1,4,1,1,1] = 21/256, rerop[2,1,1,2,1,1,3] = 4125/2048, rerop[2,1,1,2,1,1,2,2] = 5775/4096, rerop[2,1,1,2,1,3,1] = -1425/2048, rerop[2,1,1,2,1,2,1,2] = 275/512, rerop[2,1,1,2,1,2,2,1] = 25/256, rerop[2,1,1,2,1,3,1,1] = 45/512, rerop[2,1,1,2,2,1,1,2] = 1925/4096, rerop[2,1,1,2,2,1,2,1] = 175/2048, rerop[2,1,1,2,2,2,1,1] = 315/4096, rerop[2,1,1,2,3,1,1,1] = 35/512, rerop[2,1,3,1,1,1,2] = 825/2048, rerop[2,1,3,1,1,2,1] = 75/1024, rerop[2,1,3,1,2,1,1] = 135/2048, rerop[2,1,3,1,1,1,2] = 15/256, rerop[2,1,4,1,1,1,1] = 105/2048, rerop[2,1,2,1,1,1,3] = 825/512, rerop[2,1,2,1,1,1,2,2] = 1155/1024, rerop[2,1,2,1,1,3,1,1] = -285/512, rerop[2,1,2,1,1,2,1,2] = 55/128, rerop[2,1,2,1,2,1,1,2,2,1] = 5/64, rerop[2,1,2,1,1,3,1,1] = 9/128, rerop[2,1,2,1,2,1,1,2] = 385/1024, rerop[2,1,2,1,2,1,1,1] = 35/512, rerop[2,1,2,1,2,2,1,1] = 63/1024, rerop[2,1,2,1,3,1,1,1] = 7/128, rerop[2,1,2,2,1,1,1,2] = 165/512, rerop[2,1,2,2,1,1,2,1] = 15/256, rerop[2,1,2,2,1,2,1,1] = 27/512, rerop[2,1,2,2,2,1,1,1] = 3/64, rerop[2,1,2,3,1,1,1,1] = 21/512, rerop[2,1,3,1,1,1,1,2] = 275/1024, rerop[2,1,3,1,1,1,2,1] = 25/512, rerop[2,1,3,1,1,2,1,1] = 45/1024, rerop[2,1,3,1,2,1,1,1] = 5/128, rerop[2,1,3,2,1,1,1,1] = 5/128, rerop[2,1,3,2,1,1,1,1]

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15/1024, rerop[3,1,1,1,1,1,1,3] = 825/1024, rerop[3,1,1,1,1,1,2,2] = 1155/2048, rerop[3,1,1,1,1,1,3,1] = -285/1024, rerop[3,1,1,1,1,2,1,2] = 55/256, rerop[3,1,1,1,1,2,2,1] = 5/128, rerop[3,1,1,1,1,3,1,1] = 9/256, rerop[3,1,1,1,2,1,1,2] = 385/2048, rerop[3,1,1,1,2,1,2,1] = 35/1024, rerop[3,1,1,1,2,2,1,1] = 63/2048, rerop[3,1,1,1,3,1,1,1] = 7/256, rerop[3,1,1,1,2,1,1,1,2] = 165/1024, rerop[3,1,1,2,1,1,2,1] = 15/512, rerop[3,1,1,2,1,2,1,1] = 27/1024, rerop[3,1,1,2,2,1,1,1] = 3/128, rerop[3,1,1,3,1,1,1,1] = 21/1024, rerop[3,1,2,1,1,1,1,2] = 275/2048, rerop[3,1,2,1,1,1,2,1] = 25/1024, rerop[3,1,2,1,1,2,1,1] = 45/2048, rerop[3,1,2,1,1,3,1,1] = 15/1024, rerop[3,1,2,1,1,1,1,1,2] = 55/512, rerop[3,2,1,1,1,1,2,1] = 5/256, rerop[3,2,1,1,1,2,1,1] = 9/512, rerop[3,2,1,1,2,1,1,1] = 1/64, rerop[3,2,1,2,1,1,1,1] = 7/512, rerop[3,2,2,1,1,1,1,1] = 3/256, rerop[3,3,1,1,1,1,1,1] = 5/512, rerop[4,1,1,1,1,1,1,2] = 165/2048, rerop[4,1,1,1,1,1,2,1] = 15/1024, rerop[4,1,1,1,2,1,1,1] = 27/2048, rerop[4,1,1,2,1,1,1,1] = 3/256, rerop[4,1,1,2,1,1,1,1,1] = 21/2048, rerop[4,1,2,1,1,1,1,1] = 9/1024, rerop[4,2,1,1,1,1,1,1] = 15/2048, rerop[5,1,1,1,1,1,1,1] = 3/512, rerop[1,1,1,1,1,1,1,1,1,4] = 51799/6144, rerop[1,1,1,1,1,1,1,2,3] = 5225/768, rerop[1,1,1,1,1,1,1,3,2] = 5005/1536, rerop[1,1,1,1,1,1,1,4,1] = -4375/768, rerop[1,1,1,1,1,1,2,1,3] = 23485/6144, rerop[1,1,1,1,1,1,2,2,2] = 36575/12288, rerop[1,1,1,1,1,1,2,3,1] = -18305/6144, rerop[1,1,1,1,1,1,3,1,2] = -1925/1536, rerop[1,1,1,1,1,1,3,2,1] = 875/768, rerop[1,1,1,1,1,1,4,1,1] = 1729/1536, rerop[1,1,1,1,1,2,1,1,3] = 2475/1024, rerop[1,1,1,1,1,2,1,2,2] = 3465/2048, rerop[1,1,1,1,1,2,1,3,1] = -855/1024, rerop[1,1,1,1,1,2,2,1,2] = 165/256, rerop[1,1,1,1,1,2,2,2,1] = 15/128, rerop[1,1,1,1,1,2,3,1,1] = 27/256, rerop[1,1,1,1,1,3,1,1,2] = 1155/2048, rerop[1,1,1,1,1,3,1,2,1] = 105/1024, rerop[1,1,1,1,1,3,2,1,1] = 189/2048, rerop[1,1,1,1,1,4,1,1,1] = 21/256, rerop[1,1,1,1,1,2,1,1,1,3] = 4125/2048, rerop[1,1,1,1,2,1,1,2,2] = 5775/4096, rerop[1,1,1,1,2,1,1,3,1] = -1425/2048, rerop[1,1,1,1,2,1,2,1,2] = 275/512, rerop[1,1,1,1,2,1,2,2,1] = 25/256, rerop[1,1,1,1,2,1,3,1,1] = 45/512, rerop[1,1,1,1,2,2,1,1,2] = 1925/4096, rerop[1,1,1,1,2,2,1,2,1] = 175/2048, rerop[1,1,1,1,2,2,2,1] = 315/4096, rerop[1,1,1,1,2,3,1,1,1] = 35/512, rerop[1,1,1,1,3,1,1,1,2] = 825/2048, rerop[1,1,1,1,3,1,2,1,1] = 75/1024, rerop[1,1,1,1,3,1,2,1,1,1] = 135/2048, rerop[1,1,1,1,3,2,1,1,1] = 15/256, rerop[1,1,1,1,4,1,1,1,1] = 105/2048, rerop[1,1,1,2,1,1,1,1,3] = 825/512, rerop[1,1,1,2,1,1,1,2,2] = 1155/1024, rerop[1,1,1,2,1,1,1,3,1] = -285/512, rerop[1,1,1,2,1,1,2,1,2] = 55/128, rerop[1,1,1,2,1,1,2,2,1] = 5/64, rerop[1,1,1,2,1,1,3,1,1] = 9/128, rerop[1,1,1,2,1,1,3,1,1,1] = 385/1024, rerop[1,1,1,2,1,2,1,1,1] = 35/512, rerop[1,1,1,2,1,2,2,1,1] = 63/1024, rerop[1,1,1,2,1,3,1,1,1] = 7/128, rerop[1,1,1,2,2,1,1,1,2] = 165/512, rerop[1,1,1,2,2,1,1,2,1] = 15/256, rerop[1,1,1,2,2,1,2,1,1] = 27/512, rerop[1,1,1,2,2,2,1,1,1] = 3/64, rerop[1,1,1,2,3,1,1,1,1] = 21/512, rerop[1,1,1,3,1,1,1,1,2] = 275/1024, rerop[1,1,1,3,1,1,1,2,1] = 25/512, rerop[1,1,1,3,1,1,2,1,1] = 45/1024, rerop[1,1,1,3,1,2,1,1,1] = 5/128, rerop[1,1,1,3,2,1,1,1,1] = 35/1024, rerop[1,1,1,4,1,1,1,1,1] = 15/512, rerop[1,1,1,2,1,1,1,1,1,3] = 2475/2048, rerop[1,1,2,1,1,1,1,2,2] = 3465/4096, rerop[1,1,2,1,1,1,1,3,1] = -855/2048, rerop[1,1,2,1,1,2,1,2] = 15/256, rerop[1,1,2,1,1,3,1,1] = 189/4096, rerop[1,1,2,1,1,1,1,1,3,1] = 27/512, rerop[1,1,2,1,1,2,1,1,2] = 1155/4096, rerop[1,1,2,1,1,2,1,2,1] = 105/2048, rerop[1,1,2,1,1,2,2,1,1] = 189/4096, rerop[1,1,2,1,1,3,1,1,1] = 21/512, rerop[1,1,2,1,2,1,1,1,2] = 495/2048, rerop[1,1,2,1,2,1,1,2,1] = 45/1024, rerop[1,1,2,1,2,1,2,1,1] = 81/2048, rerop[1,1,2,1,2,2,1,1,1] = 9/256, rerop[1,1,2,1,3,1,1,1,1] = 63/2048, rerop[1,1,2,2,1,1,1,1,2] = 825/4096, rerop[1,1,2,2,1,1,1,2,1] = 75/2048, rerop[1,1,2,2,1,2,1,1] = 135/4096, rerop[1,1,2,2,1,2,1,1,1] = 15/512, rerop[1,1,2,2,1,1,1,1] = 105/4096, rerop[1,1,2,3,1,1,1,1,1] = 45/2048, rerop[1,1,3,1,1,1,1,1,2] = 165/1024, rerop[1,1,3,1,1,1,1,2,1] = 15/512, rerop[1,1,3,1,1,1,2,1,1] = 21/1024, rerop[1,1,3,1,1,1,1,1,1] = 9/512, rerop[1,1,3,1,1,1,1,1,1,3] = 825/1024, rerop[1,2,1,1,1,1,1,1,2] = 1155/2048, rerop[1,2,1,1,1,1,1,1,3] = 5/128, rerop[1,2,1,1,1,1,1,2,1] = 9/256, rerop[1,2,1,1,1,1,2,1,1,2] = 385/2048, rerop[1,2,1,1,1,2,1,1,1] = 35/1024, rerop[1,2,1,1,1,2,2,1,1] = 63/2048, rerop[1,2,1,1,1,3,1,1,1] = 7/256, rerop[1,2,1,1,2,1,1,1,2] = 165/1024, rerop[1,2,1,1,2,1,1,2,1] = 15/512, rerop[1,2,1,1,2,1,2,1,1] = 27/1024, rerop[1,2,1,1,2,2,1,1,1] = 3/128, rerop[1,2,1,1,3,1,1,1,1] = 21/1024, rerop[1,2,1,2,1,1,1,1,1] = 15/256, rerop[1,2,1,2,1,1,1,1,2] = 15/512, rerop[1,2,1,2,1,1,1,1,3] = 3/256, rerop[1,2,1,2,1,1,1,2,1] = 5/256, rerop[1,2,1,2,1,1,1,2,2,1] = 5/128, rerop[1,2,1,1,1,3,1,1,1] = 9/256, rerop[1,2,1,1,1,2,1,1,2] = 385/2048, rerop[1,2,1,1,1,2,1,2,1] = 35/1024, rerop[1,2,1,1,1,2,2,1,1] = 63/2048, rerop[1,2,1,1,1,3,1,1,1] = 7/256, rerop[1,2,1,1,2,1,1,1,1] = 165/1024, rerop[1,2,1,1,2,1,1,2,1] = 15/512, rerop[1,2,1,1,2,1,2,1,1] = 27/1024, rerop[1,2,1,1,2,2,1,1,1] = 3/128, rerop[1,2,1,1,2,1,1,1,1,1] = 21/1024, rerop[1,2,1,1,2,1,1,1,1,1] = 15/256, rerop[1,2,1,1,2,1,1,1,1,1,1] = 3/512, rerop[1,2,1,1,2,1,1,1,1,1,1,1] = 27/4096, rerop[2,2,1,1,1,1,2,1,1,1] = 15/4096, rerop[2,2,1,1,1,1,1,1,1,1] = 15/4096, rerop[2,2,1,1,1,1,1,1,1,1] = 3/1024, rerop[3,1,1,1,1,1,1,1,1,2] = 55/2048, rerop[3,1,1,1,1,1,1,1,2,1] = 5/1024, rerop[3,1,1,1,1,1,1,1,2,1,1] = 9/2048, rerop[3,1,1,1,1,1,2,1,1,1,1] = 1/256, rerop[3,1,1,1,2,1,1,1,1,1] = 7/2048, rerop[3,1,1,2,1,1,1,1,1,1] = 3/1024, rerop[3,1,1,2,1,1,1,1,1,1,1] = 5/2048, rerop[3,2,1,1,1,1,1,1,1,1] = 1/512, rerop[4,1,1,1,1,1,1,1,1,1] = 3/2048, rerop[1,1,1,1,1,1,1,1,1,3] = 825/2048, rerop[1,1,1,1,1,1,1,1,1,2,2] = 1155/4096, rerop[1,1,1,1,1,1,1,1,1,3,1] = -285/2048, rerop[1,1,1,1,1,1,1,1,2,1,2] = 55/512, rerop[1,1,1,1,1,1,1,1,2,2,1] = 5/256, rerop[1,1,1,1,1,1,1,1,3,1,1] = 9/512, rerop[1,1,1,1,1,1,2,1,1,2] = 385/4096, rerop[1,1,1,1,1,1,2,1,2,1] = 35/2048, rerop[2,1,1,1,1,2,2,1,1] = 63/4096, rerop[2,1,1,1,1,3,1,1,1] = 7/512, rerop[2,1,1,2,1,1,1,1,2] = 165/2048, rerop[2,1,1,1,2,1,1,1,2,1] = 15/1024, rerop[2,1,1,2,1,2,1,1,1] = 27/2048, rerop[2,1,1,2,2,1,1,1] = 3/256, rerop[2,1,1,3,1,1,1,1,1] = 21/2048, rerop[2,1,1,2,1,1,1,1,2] = 275/4096, rerop[2,1,1,2,1,1,1,2,1] = 25/2048, rerop[2,1,1,2,1,1,2,1,1] = 45/4096, rerop[2,1,1,2,1,1,2,1,1,1] = 15/2048, rerop[2,1,1,2,1,1,1,1,2,1] = 55/1024, rerop[2,1,1,2,1,1,1,1,2,1,1] = 5/512, rerop[2,1,1,2,1,1,1,1,2,1,1,1] = 9/1024, rerop[2,1,2,1,1,1,1,1,1,1] = 1/128, rerop[2,1,2,1,2,1,1,1,1,1] = 7/1024, rerop[2,1,2,2,1,1,1,1,1,1] = 3/512, rerop[2,1,3,1,1,1,1,1,1,1] = 5/1024, rerop[2,2,1,1,1,1,1,1,1,2] = 165/4096, rerop[2,2,1,1,1,1,1,1,2,1] = 15/2048, rerop[2,2,1,1,1,1,1,2,1,1] = 27/4096, rerop[2,2,1,1,1,1,2,1,1,1] = 3/512, rerop[2,2,1,1,1,2,1,1,1,1] = 21/4096, rerop[1,1,2,1,1,1,1,1,1,1,1] = 9/2048, rerop[1,1,2,1,1,1,1,1,1,1,1,1] = 9/2048, rerop[1,1,2,1,1,1,1,1,1,1,1,1] = 1/256, rerop[1,2,1,1,1,1,1,1,1,1,1,2] = 55/2048, rerop[1,2,1,1,1,1,1,1,1,2,1,1] = 5/1024, rerop[1,2,1,1,1,1,1,1,2,1,1,1] = 9/2048, rerop[1,2,1,1,1,1,1,1,2,1,1,1,1] = 1/256, rerop[1,2,1,1,1,1,2,1,1,1,1,1] = 7/2048, rerop[1,2,1,1,2,1,1,1,1,1,1] = 3/1024, rerop[1,2,1,2,1,1,1,1,1,1,1] = 5/2048, rerop[1,2,2,1,1,1,1,1,1,1,1] = 1/

512, rerop[1,3,1,1,1,1,1,1,1] = 3/2048, rerop[2,1,1,1,1,1,1,1,2] = 55/4096, rerop[2,1,1,1,1,1,1,2,1] = 5/2048, rerop[2,1,1,1,1,1,2,1,1] = 9/4096, rerop[2,1,1,1,1,2,1,1,1] = 1/512, rerop[2,1,1,1,2,1,1,1,1] = 7/4096, rerop[2,1,1,2,1,1,1,1,1] = 3/2048, rerop[2,1,2,1,1,1,1,1,1] = 5/4096, rerop[2,1,2,1,1,1,1,1,1] = 1/1024, rerop[2,2,1,1,1,1,1,1,1] = 3/4096, rerop[3,1,1,1,1,1,1,1,1] = 1/2048, rerop[1,1,1,1,1,1,1,1,2] = 55/4096, rerop[1,1,1,1,1,1,1,2,1] = 5/2048, rerop[1,1,1,1,1,1,1,2,1,1] = 9/4096, rerop[1,1,1,1,1,2,1,1,1] = 1/512, rerop[1,1,1,1,2,1,1,1,1] = 7/4096, rerop[1,1,1,1,2,1,1,1,1] = 3/2048, rerop[1,1,1,2,1,1,1,1,1] = 5/4096, rerop[1,1,2,1,1,1,1,1,1] = 1/1024, rerop[1,1,2,1,1,1,1,1,1] = 3/4096, rerop[1,2,1,1,1,1,1,1,1] = 1/2048, rerop[2,1,1,1,1,1,1,1,1] = 1/4096, rerop[1,1,1,1,1,1,1,1,1] = 1/4096] : ##

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