```
#####################################################################
#####################################################################
#####################################################################
#####  File  "dilar_diral_standard";

## The regular bisymmetrals lar, rap are derived from the exceptional bisymmetrals pal, par via the relation:
## gari(pal,lar)=par
## gari(par,ral)=pal
## gari(lar,ral)=id
## These regular bisymmetrals lar, rap possess gari-dilators dilar, dural that are automatically bialternal:
## der.lar=preari(lar,dilar)
## der.ral=preari(ral,diral)

## For r= 4,6,8,10 the present file gives:

## sedilar_r = esedilar_r/ratiodilar_r = coefficients of dilar in the standard basis of Flex(Pa)
## sediral_r = esediral_r/ratiodiral_r   = coefficients of diral in the standard basis of Flex(Pa)

## For compactness, the sequences printed here are esedilar_r and esediral_r,
## after reduction to the common denominators ratiodilar_r = ratiodiral_r

## sedilar_r  and  - sediral_r  exceptionally coincide for r= 4, 6, 8 but are always distinct for r>8
## and sedilar_r  then becomes "simpler" than sediral_r
#####################################################################
#####################################################################
#####################################################################
ratiodiral_4:= 60:            ratiodilar_4:= 60:
ratiodiral_6:=1008:           ratiodilar_6:=1008 :
ratiodiral_8:=43200:          ratiodilar_8:=43200 :
ratiodiral_10:=7983360:  ratiodilar_10:=7983360  :
#####################################################################
sedilar_4:=esedilar_4*1/ratiodilar_4:            sediral_4:=esediral_4*1/ratiodiral_4:
sedilar_6:=esedilar_6*1/ratiodilar_6:            sediral_6:=esediral_6*1/ratiodiral_6:
sedilar_8:=esedilar_8*1/ratiodilar_8:            sediral_8:=esediral_8*1/ratiodiral_8:
sedilar_10:=esedilar_10*1/ratiodilar_10:       sediral_10:=esediral_10*1/ratiodiral_10:
#####################################################################
esedilar_4:= ## lprint(sedilar_4*ratiodilar_4);
[0, 1, -2, 1, 0, 1, 1, -1, -1, 0, -1, 2, -1, 0]: ##

esediral_4:= - esedilar_4: ##
#####################################################################
esedilar_6:= ## lprint(sedilar_6*ratiodilar_6);
[0, -1, 3, -1, 0, -4, -4, 3, 3, -1, 0, -4, 0, -1, 3, 3, 3, 3, -4, -4, -4, -\
4, 3, 3, 3, 3, -1, 0, -4, 0, -1, 3, 3, -4, -4, 0, -1, 3, -1, 0, -1, -1, -1,
-1, -1, -1, -1, -1, -1, -1, -1, -1, -1, -1, 2, 2, 2, 2, 2, 2, 2, 2, 2, -2,
-2, -2, -2, -2, -2, -2, -2, -2, -2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
0, 1, -3, 1, 0, 4, 4, -3, -3, 1, 0, 4, 0, 1, -3, -3, -3, -3, -3, 4, 4, 4, -\
3, -3, -3, -3, -3, 1, 0, 4, 0, 1, -3, -3, 4, 4, 0, 1, -3, 1, 0]: ##

esediral_6:= - esedilar_6: ##
#####################################################################
esedilar_8:= ## lprint(sedilar_8*ratiodilar_8);
[0, 2, -8, 2, 0, 16, 13, -8, -8, 2, 0, 13, 0, 5, -20, -17, -14, -17, -14, 16,
13, 16, 13, -8, -8, -14, -8, -14, 2, 0, 13, 0, 5, -17, -14, 13, 13, 0, 5, -14,
5, 0, 16, 19, 4, 19, 13, 16, 19, 4, 4, 19, 13, 19, 13, 13, -20, -20, -14, -20,
-17, -20, -20, -14, -20, -17, 16, 16, 16, 16, 19, 19, 16, 16, 19, 19, -8, -8,
-14, -8, -14, 1, 1, -14, -11, -8, -14, 1, -14, -11, 2, 0, 13, 0, 5, -17, -14,
13, 13, 0, 5, -14, 5, 0, 19, 13, 19, 13, 13, -17, -14, -20, -17, 13, 13, 19,
13, 19, 0, 5, -14, 5, 0, 13, 13, -14, -17, 5, 0, 13, 0, 2, -8, -11, -8, -11,
-14, 4, 1, -8, -2, -11, -14, 1, -14, -8, -14, -11, -20, -11, -14, 4, 1, 4, 1,
-8, -2, -20, -2, -8, -11, -14, 1, -14, -8, -11, -14, 1, 1, -14, -8, -14, -8, -8,
16, 19, 10, 19, 16, 16, 19, 10, 10, 19, 16, 19, 16, 16, 16, 19, 10, 19, 16,
16, 19, 10, 10, 19, 16, 19, 16, 16, -20, -20, -20, -20, -20, -20, -20, -20,
-20, -20, -20, -20, -20, -20, -20, -20, -20, -20, -20, -20, -20, -20, -20, -20,
-20, 16, 16, 16, 16, 19, 19, 16, 16, 19, 19, 10, 10, 10, 10, 19, 19, 16, 16,
16, 16, 19, 19, 10, 10, 19, 19, 16, 16, -8, -8, -14, -8, -14, 1, 1, -14, -11,
-8, -14, 1, -14, -11, -8, -2, -20, -2, -8, 1, 1, 4, 4, -14, -11, -20, -11, -14,
-8, -14, 1, -14, -11, -2, -8, 1, 4, -14, -11, -8, -11, -8, 2, 0, 13, 0, 5, -17,
-14, 13, 13, 0, 5, -14, 5, 0, 19, 13, 19, 13, 13, -17, -14, -20, -17, 13,
13, 19, 13, 19, 0, 5, -14, 5, 0, 13, 13, -14, -17, 5, 0, 13, 0, 2, -11, -14, 1,
-14, -8, -11, -14, 1, 1, -14, -8, -14, -8, -8, 19, 16, 19, 16, 16, 19, 16,
```

19, 16, 16, -17, -17, -20, -20, -14, -14, -20, -20, -20, -20, 13, 13, 19, 13,
19, 4, 4, 19, 16, 13, 19, 4, 19, 16, 0, 5, -14, 5, 0, 13, 13, -14, -17, 5, 0,
13, 0, 2, -14, -8, -14, -8, -8, 13, 13, 16, 16, -14, -17, -14, -17, -20, 5, 0,
13, 0, 2, -8, -8, 13, 16, 0, 2, -8, 2, 0, 2, 2, 5, 2, 5, -1, -1, 5, 5, 2, 5,
-1, 5, 5, -1, -4, 5, -4, -1, -1, -1, -4, -4, 5, 5, 5, 5, 5, 2, 5, -1, 5, 5, -4,
-1, -1, -4, 5, 5, -1, 5, 2, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, -1, -4,
5, -4, -1, -1, -4, 5, -4, -1, -1, -1, -4, -4, 5, 5, -4, -4, -1, -1, 5, 5, 5, 5,
5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 2, 5, -1, 5, 5, -4, -1, -1, -4, 5, 5, -1, 5, 2,
5, 5, 5, 5, 5, -4, -1, -4, -1, -1, -4, 5, -4, -1, 5, 5, -1, 5, 2, 5, 5, -1,
-1, 5, 2, 5, 2, 2, -6, -6, -9, -6, -9, 0, 0, -9, -6, -6, -9, 0, -9, -6, -9, -6,
-15, -6, -9, 0, 0, 0, 0, -9, -6, -15, -6, -9, -6, -9, 0, -9, -6, -6, -9, 0,
0, -9, -6, -9, -6, -6, -6, -6, -9, -6, -9, 0, 0, -9, -6, -6, -9, 0, -9, -6, -9,
-6, -15, -6, -9, 0, 0, 0, 0, -9, -6, -15, -6, -9, -6, -9, 0, -9, -6, -6, -9,
0, 0, -9, -6, -9, -6, -6, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,
10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,
10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,
10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, -10,
-10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10,
-10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10,
-10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10,
-10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10, -10,
-10, -10, -10, -10, -10, -10, 6, 6, 6, 6, 9, 9, 6, 6, 9, 9, 0, 0, 0, 0, 9, 9,
6, 6, 6, 6, 9, 9, 0, 0, 9, 9, 6, 6, 9, 9, 6, 6, 15, 15, 6, 6, 9, 9, 0, 0, 0, 0,
0, 0, 0, 0, 9, 9, 6, 6, 15, 15, 6, 6, 9, 9, 6, 6, 9, 9, 0, 0, 9, 9, 6, 6, 6,
6, 9, 9, 0, 0, 0, 0, 9, 9, 6, 6, 9, 9, 6, 6, 6, 6, -2, -2, -5, -2, -5, 1, 1,
-5, -5, -2, -5, 1, -5, -5, 1, 4, -5, 4, 1, 1, 1, 4, 4, -5, -5, -5, -5, -5, -2,
-5, 1, -5, -5, 4, 1, 1, 4, -5, -5, 1, -5, -2, -5, -5, -5, -5, -5, -5, -5, -5,
-5, -5, -5, -5, -5, -5, 1, 4, -5, 4, 1, 1, 4, -5, 4, 1, 1, 1, 4, 4, -5, -5, 4,
4, 1, 1, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -2, -5, 1, -5
, -5, 4, 1, 1, 4, -5, -5, 1, -5, -2, -5, -5, -5, -5, -5, 4, 1, 4, 1, 1, 4, -5,
4, 1, -5, -5, 1, -5, -2, -5, -5, 1, 1, -5, -2, -5, -2, -2, 0, -2, 8, -2, 0, -16,
-13, 8, 8, -2, 0, -13, 0, -5, 20, 17, 14, 17, 14, -16, -13, -16, -13, 8, 8
, 14, 8, 14, -2, 0, -13, 0, -5, 17, 14, -13, -13, 0, -5, 14, -5, 0, -16, -19,
-4, -19, -13, -16, -19, -4, -4, -19, -13, -19, -13, -13, 20, 20, 14, 20, 17,
20, 20, 14, 20, 17, -16, -16, -16, -16, -19, -19, -16, -16, -19, -19, 8, 8, 14,
8, 14, -1, -1, 14, 11, 8, 14, -1, 14, 11, -2, 0, -13, 0, -5, 17, 14, -13, -13,
0, -5, 14, -5, 0, -19, -13, -19, -13, -13, 17, 14, 20, 17, -13, -13, -19,
-13, -19, 0, -5, 14, -5, 0, -13, -13, 14, 17, -5, 0, -13, 0, -2, 8, 11, 8, 11,
14, -4, -1, 8, 2, 11, 14, -1, 14, 8, 14, 11, 20, 11, 14, -4, -1, -4, -1, 8, 2,
20, 2, 8, 11, 14, -1, 14, 8, 11, 14, -1, -1, 14, 8, 14, 8, 8, -16, -19, -10,
-19, -16, -16, -19, -10, -10, -19, -16, -19, -16, -16, -16, -19, -10, -19, -16,
-16, -19, -10, -10, -19, -16, -19, -16, -16, 20, 20, 20, 20, 20, 20, 20, 20,
20, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20, -16, -16,
-16, -16, -19, -19, -16, -16, -19, -19, -10, -10, -10, -10, -19, -19, -16, -16,
-16, -16, -19, -19, -10, -10, -19, -19, -16, -16, 8, 8, 14, 8, 14, -1, -1,
14, 11, 8, 14, -1, 14, 11, 8, 2, 20, 2, 8, -1, -1, -4, -4, 14, 11, 20, 11, 14,
8, 14, -1, 14, 11, 2, 8, -1, -4, 14, 11, 8, 11, 8, -2, 0, -13, 0, -5, 17, 14,
-13, -13, 0, -5, 14, -5, 0, -19, -13, -19, -13, -13, 17, 14, 20, 17, -13, -13,
-19, -13, -19, 0, -5, 14, -5, 0, -13, -13, 14, 17, -5, 0, -13, 0, -2, 11, 14,
-1, 14, 8, 11, 14, -1, -1, 14, 8, 14, 8, 8, -19, -16, -19, -16, -16, -19, -16,
-19, -16, -16, 17, 17, 20, 20, 14, 14, 20, 20, 20, 20, -13, -13, -19, -13, -19,
-4, -4, -19, -16, -13, -19, -4, -19, -16, 0, -5, 14, -5, 0, -13, -13, 14, 17,
-5, 0, -13, 0, -2, 14, 8, 14, 8, 8, -13, -13, -16, -16, 14, 17, 14, 17, 20,
-5, 0, -13, 0, -2, 8, 8, -13, -16, 0, -2, 8, -2, 0]: ##

esediral_8:= - esedilar_8: ##
##
esedilar_10:= ## lprint(sedilar_10*ratiodilar_10);
[0, -15, 75, -15, 0, -200, -145, 75, 75, -15, 0, -145, 0, -70, 350, 262, 218, 262, 207, -200, -145, -200, -145, 75,
75, 218, 75, 218, -15, 0, -145, 0, -70, 262, 207, -145, -145, 0, -70, 207, -70, 0, -420, -387, -156, -387, -266, -332
, -321, -156, -156, -387, -266, -321, -266, -244, 350, 284, 218, 284, 229, 350, 284, 218, 284, 229, -200, -167, -200,
-167, -354, -321, -200, -167, -354, -321, 75, 75, 218, 75, 218, -134, -134, 218, 196, 75, 218, -134, 218, 196, -15, 0
, -145, 0, -70, 262, 207, -145, -145, 0, -70, 207, -70, 0, -387, -266, -321, -266, -244, 262, 207, 284, 229, -145, -\
145, -321, -145, -321, 0, -70, 207, -70, 0, -266, -244, 207, 229, -70, 0, -244, 0, -70, 350, 383, 185, 383, 350, 64,
119, 185, 86, 383, 350, 119, 350, 229, 383, 295, 383, 295, 284, 64, 119, 64, 119, 185, 86, 383, 86, 185, 383, 350,
119, 350, 229, 295, 284, 119, 119, 350, 229, 284, 229, 207, -420, -387, -222, -387, -288, -332, -321, -222, -222, -\
387, -288, -321, -288, -266, -420, -387, -222, -387, -288, -332, -321, -222, -222, -387, -288, -321, -288, -266, 350,
284, 284, 284, 251, 350, 284, 284, 284, 251, 449, 383, 383, 383, 350, 350, 284, 284, 284, 251, 449, 383, 383, 383,
350, -200, -167, -200, -167, -354, -321, -200, -167, -354, -321, -2, 31, -2, 31, -354, -321, -332, -299, -200, -167,
-354, -321, -2, 31, -354, -321, -332, -299, 75, 75, 218, 75, 218, -134, -134, 218, 196, 75, 218, -134, 218, 196, 185,
86, 383, 86, 185, -134, -134, -156, -156, 218, 196, 383, 196, 317, 75, 218, -134, 218, 196, 86, 185, -134, -156, 218,

196, 185, 196, 218, -15, 0, -145, 0, -70, 262, 207, -145, -145, 0, -70, 207, -70, 0, -387, -266, -321, -266, -244,
262, 207, 284, 229, -145, -145, -321, -145, -321, 0, -70, 207, -70, 0, -266, -244, 207, 229, -70, 0, -244, 0, -70,
383, 350, 119, 350, 229, 295, 284, 119, 119, 350, 229, 284, 229, 207, -387, -288, -321, -288, -266, -387, -288, -321,
-288, -266, 262, 229, 284, 251, 317, 284, 284, 251, 383, 350, -145, -145, -321, -145, -321, 97, 97, -321, -299, -145,
-321, 97, -321, -299, 0, -70, 207, -70, 0, -266, -244, 207, 229, -70, 0, -244, 0, -70, 350, 229, 284, 229, 207, -266,
-244, -288, -266, 207, 229, 284, 229, 350, -70, 0, -244, 0, -70, 229, 207, -244, -266, 0, -70, 207, -70, 0, -200, -\
288, -68, -288, -299, -156, -222, -68, -68, -288, -299, -222, -299, -321, 64, 152, -68, 152, 97, -156, -222, -24, -90
, -68, -68, -68, -68, -68, -288, -299, -222, -299, -321, 152, 97, -222, -90, -299, -321, 97, -321, -145, -332, -420,
-68, -420, -299, -420, -486, -68, -68, -420, -299, -486, -299, -321, 64, 152, -68, 152, 97, 64, 152, -68, 152, 97, -\
156, -222, -24, -90, -420, -486, -24, -90, -156, -222, -68, -68, -68, -68, -68, -68, -68, -68, -68, -68, -68, -68, -\
68, -68, -288, -299, -222, -299, -321, 152, 97, -222, -90, -299, -321, 97, -321, -145, -420, -299, -486, -299, -321,
152, 97, 152, 97, -222, -90, -486, -90, -222, -299, -321, 97, -321, -145, -299, -321, 97, 97, -321, -145, -321, -145,
-145, 350, 416, 185, 416, 383, 152, 218, 185, 86, 416, 383, 218, 383, 284, 383, 328, 383, 328, 317, 152, 218, 152,
218, 185, 86, 383, 86, 185, 416, 383, 218, 383, 284, 328, 317, 218, 218, 383, 284, 317, 284, 262, 350, 416, 185, 416,
383, 152, 218, 185, 86, 416, 383, 218, 383, 284, 383, 328, 383, 328, 317, 152, 218, 152, 218, 185, 86, 383, 86, 185,
416, 383, 218, 383, 284, 328, 317, 218, 218, 383, 284, 317, 284, 262, -420, -453, -222, -453, -354, -420, -453, -222,
-222, -453, -354, -453, -354, -354, -420, -453, -222, -453, -354, -420, -453, -222, -222, -453, -354, -453, -354, -\
354, -453, -486, -255, -486, -387, -453, -486, -255, -255, -486, -387, -486, -387, -387, -420, -453, -222, -453, -354
, -420, -453, -222, -222, -453, -354, -453, -354, -354, -453, -486, -255, -486, -387, -453, -486, -255, -255, -486, -\
387, -486, -387, -387, 350, 350, 284, 350, 317, 350, 350, 284, 350, 317, 449, 449, 383, 449, 416, 350, 350, 284, 350,
317, 449, 449, 383, 449, 416, 218, 218, 152, 218, 185, 218, 218, 152, 218, 185, 449, 449, 383, 449, 416, 416, 416,
350, 416, 383, 350, 350, 284, 350, 317, 449, 449, 383, 449, 416, 218, 218, 152, 218, 185, 449, 449, 383, 449, 416,
416, 416, 350, 416, 383, -200, -200, -200, -200, -354, -354, -200, -200, -354, -354, -2, -2, -2, -2, -354, -354, -332
, -332, -200, -200, -354, -354, -2, -2, -354, -354, -332, -332, -222, -222, -90, -90, -486, -486, -90, -90, -222, -\
222, -2, -2, -2, -2, 64, 64, 64, 64, -354, -354, -332, -332, -486, -486, -332, -332, -420, -420, -200, -200, -354, -\
354, -2, -2, -354, -354, -332, -332, -90, -90, -222, -222, -2, -2, 64, 64, -354, -354, -332, -332, -222, -222, -332,
-332, -288, -288, 75, 75, 218, 75, 218, -134, -134, 218, 196, 75, 218, -134, 218, 196, 185, 86, 383, 86, 185, -134, -\
134, -156, -156, 218, 196, 383, 196, 317, 75, 218, -134, 218, 196, 86, 185, -134, -156, 218, 196, 185, 196, 218, -35,
-35, -35, -35, -35, -35, -35, -35, -35, -35, -35, -35, -35, -35, 185, 86, 383, 86, 185, 119, 20, 317, 20, 119, -134,
-134, -156, -156, -35, -35, -156, -156, -101, -101, 218, 196, 383, 196, 317, -35, -35, 383, 317, 196, 317, -35, 317,
229, 75, 218, -134, 218, 196, 86, 185, -134, -156, 218, 196, 185, 196, 218, -35, -35, -35, -35, -35, 86, 185, 20, 119
, -134, -156, -35, -156, -101, 218, 196, 185, 196, 218, -35, -35, 185, 119, 196, 218, -35, 218, 130, -15, 0, -145, 0,
-70, 262, 207, -145, -145, 0, -70, 207, -70, 0, -387, -266, -321, -266, -244, 262, 207, 284, 229, -145, -145, -321, -\
145, -321, 0, -70, 207, -70, 0, -266, -244, 207, 229, -70, 0, -244, 0, -70, 383, 350, 119, 350, 229, 295, 284, 119,
119, 350, 229, 284, 229, 207, -387, -288, -321, -288, -266, -387, -288, -321, -288, -266, 262, 229, 284, 251, 317,
284, 284, 251, 383, 350, -145, -145, -321, -145, -321, 97, 97, -321, -299, -145, -321, 97, -321, -299, 0, -70, 207, -\
70, 0, -266, -244, 207, 229, -70, 0, -244, 0, -70, 350, 229, 284, 229, 207, -266, -244, -288, -266, 207, 229, 284,
229, 350, -70, 0, -244, 0, -70, 229, 207, -244, -266, 0, -70, 207, -70, 0, -288, -299, -222, -299, -321, 152, 97, -\
222, -90, -299, -321, 97, -321, -145, -420, -299, -486, -299, -321, 152, 97, 152, 97, -222, -90, -486, -90, -222, -\
299, -321, 97, -321, -145, -299, -321, 97, 97, -321, -145, -321, -145, -145, 383, 350, 185, 350, 251, 295, 284, 185,
185, 350, 251, 284, 251, 229, 416, 383, 218, 383, 284, 328, 317, 218, 218, 383, 284, 317, 284, 262, -387, -288, -387,
-288, -288, -387, -288, -387, -288, -288, -486, -387, -486, -387, -387, -387, -288, -387, -288, -288, -486, -387, -\
486, -387, -387, 262, 229, 284, 251, 317, 284, 284, 251, 383, 350, 218, 185, 218, 185, 317, 284, 328, 295, 284, 251,
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