```
#########################################################################
#########################################################################
#########################################################################
#####  File  "lar_ral_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

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

## selar_r = eselar_r/ratiolar_r = coefficients of lar in the standard basis of Flex(Pa)
## seral_r = eseral_r/ratioral_r   = coefficients of ral in the standard basis of Flex(Pa)

## For compactness, the sequences printed here are eselar_r and eseral_r,
## after reduction to the common denominators ratiolar_r=ratioral_r

#########################################################################
#########################################################################
#########################################################################
ratioral_4:=240:              ratiolar_4:=240:
ratioral_6:=6048:             ratiolar_6:=6048:
ratioral_8:=172800:           ratiolar_8:=172800:
ratioral_10:= 15966720:  ratiolar_10:= 15966720:
#########################################################################
selar_4:=eselar_4*1/ratiolar_4:          seral_4:=eseral_4*1/ratioral_4:
selar_6:=eselar_6*1/ratiolar_6:          seral_6:=eseral_6*1/ratioral_6:
selar_8:=eselar_8*1/ratiolar_8:          seral_8:=eseral_8*1/ratioral_8:
selar_10:=eselar_10*1/ratiolar_10:       seral_10:=eseral_10*1/ratioral_10:
#########################################################################
eseral_4:= ## lprint(seral_4*ratioral_4);
[0, -1, 2, -1, 0, -1, -1, 1, 1, 0, 1, -2, 1, 0]: ##

eselar_4:= ## lprint(selar_4*ratiolar_4);
[0, 1, -2, 1, 0, 1, 1, -1, -1, 0, -1, 2, -1, 0]: ##

eseral_6:= ## lprint(seral_6*ratioral_6);
[0, 1, -3, 1, 0, 4, 4, -3, -3, 1, 0, 4, 0, 1,
-3, -3, -3, -3, -3, 4, 4, 4, 4, -3, -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, 2,
-1, -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, -4, 3, 3, 3, 3, 3,
-1, 0, -4, 0, -1, 3, 3, -4, -4, 0, -1, 3, -1, 0]: ##

eselar_6:= ## lprint(selar_6*ratiolar_6);
[0, -1, 3, -1, 0, -4, -4, 3, 3, -1, 0, -4, 0, -1,
3, 3, 3, 3, 3, -4, -4, -4, -4, 3, 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, -2,
1, 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, 4, -3, -3, -3, -3, -3,
1, 0, 4, 0, 1, -3, -3, 4, 4, 0, 1, -3, 1, 0]
: ##

eseral_8:= ## lprint(seral_8*ratioral_8);
[0, -1, 4, -1, 0, -8, -5, 4, 4, -1, 0, -5, 0, -1, 10, 7, 4, 7, 4, -8, -5, -8, -5, 4, 4, 4, 4, 4, -1, 0, -5,
0, -1, 7, 4, -5, -5, 0, -1, 4, -1, 0, -8, -8, -2, -8, -5, -5, -8, 1, 1, -11, -8, -5, -8, -5, 10, 10, 4, 10,
7, 10, 10, 4, 10, 7, -8, -8, -8, -8, -8, -8, -8, -8, -8, -8, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, -1, 0,
-5, 0, -1, 7, 4, -5, -5, 0, -1, 4, -1, 0, -11, -8, -5, -8, -5, 7, 4, 7, 4, -5, -5, -5, -5, -5, 0, -1, 4,
-1, 0, -8, -5, 4, 4, -1, 0, -5, 0, -1, 4, 1, 10, 1, 4, -2, 1, 4, 4, 7, 10, -5, 10, 4, 4, 1, 10, 1, 4, -2, 1,
-2, 1, 4, 4, 4, 4, 4, 7, 10, -5, 10, 4, 7, 10, -5, -5, 10, 4, 10, 4, 4, -8, -8, -8, -8, -8, -5, -8, -5, -5,
-11, -11, -5, -11, -8, -8, -11, -2, -11, -8, -8, -11, -2, -2, -11, -8, -11, -8, -8, 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, -8, -8, -8, -8, -8, -8, -8, -8,
-8, -8, -8, -8, -8, -8, -8, -8, -8, -8, -8, -8, -8, -8, -8, -8, -8, -8, -8, -8, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,
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0, -1, 4, 4, -5, -8, 0, -1, 4, -1, 0, -1, 2, -7, 2, -1, 2, 2, -4, -4, -1, -4, 5, -4, -1, -1, 2, -7, 2, -1,
2, 2, 2, 2, -4, -4, -4, -4, -4, -1, -4, 5, -4, -1, -1, -4, 5, 5, -4, -1, -4, -1, -1, -1, 2, -7, 2, -1, 2, 2,
-4, -4, -1, -4, 5, -4, -1, -1, 2, -7, 2, -1, -1, 2, -7, 2, -1, 2, 2, 2, 2, 2, 2, 2, 2, 2, -4, -4, -4, -4,
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-1, -1, -4, -1, -4, 5, 5, 5, 5, 5, -4, -1, -4, -1, -1, -4, -1, -4, -4, -1, -1, -1, -1, -1, 3, 0, 9, 0, 3, 0,
0, 6, 6, 3, 6, -3, 6, 3, 3, 0, 9, 0, 3, 0, 0, 0, 0, 6, 6, 6, 6, 6, 3, 6, -3, 6, 3, 3, 6, -3, -3, 6, 3, 6, 3,
3, 3, 0, 9, 0, 3, 0, 0, 6, 6, 3, 6, -3, 6, 3, 3, 0, 9, 0, 3, 0, 0, 0, 0, 6, 6, 6, 6, 6, 3, 6, -3, 6, 3, 3, 6,
-3, -3, 6, 3, 6, 3, 3, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -8, 1, -8, -5, -8, -8,
-2, -2, -5, -2, -11, -2, -5, -5, 1, -17, 1, -5, 1, 1, -11, -11, -5, -11, 7, -11, -5, -5, -8, 1, -8, -5, -8,
-8, -2, -2, -5, -2, -11, -2, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, 5, 5, 5, 5, 5, 5, 5,
5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,
5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, -3, -3, -3, -3, -3, -3,
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-3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, 1, 1, 1, 1, 1,
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-7, -4, -7, -4, 8, 5, 8, 5, -4, -4, -4, -4, -4, 1, 0, 5, 0, 1, -7, -4, 5, 5, 0, 1, -4, 1, 0, 8, 11, -4, 11,
5, 8, 11, -4, -4, 11, 5, 11, 5, 5, -10, -10, -4, -10, -7, -10, -7, -10, -7, -7, 8, 8, 8, 8, 11, 11, 8, 8, 11,
11, -4, -4, -4, -4, -4, -7, -7, -4, -7, -4, -4, -7, -4, -7, 1, 0, 5, 0, 1, -7, -4, 5, 5, 0, 1, -4, 1, 0,
11, 5, 11, 5, 5, -7, -4, -7, -7, 5, 5, 11, 5, 11, 0, 1, -4, 1, 0, 5, 5, -4, -7, 1, 0, 5, 0, 1, -4, -7, 2, -7,
-4, -4, -7, 2, 2, -7, -4, -7, -4, -4, -4, -7, 2, -7, -4, -4, -7, -4, -7, 2, 2, 2, 2, 2, -7, -4, -7, -4, -4,
-7, -4, -7, -7, -4, -4, -4, -4, -4, 8, 11, 2, 11, 8, 8, 11, 2, 2, 11, 8, 11, 8, 8, 8, 11, 2, 11, 8, 8, 11,
2, 2, 11, 8, 11, 8, 8, -10, -10, -10, -10, -10, -10, -7, -16, -7, -10, -10, -16, 2, -16, -10, -10, -7, -16,
-7, -10, -10, -10, -10, -10, -10, 8, 8, 8, 8, 11, 11, 8, 8, 11, 11, 2, 2, 2, 2, 11, 11, 8, 8, 8, 8, 11, 11,
2, 2, 11, 11, 8, 8, -4, -4, -4, -4, -4, -7, -7, -4, -7, -4, -4, -7, -4, -7, 2, 2, 2, 2, 2, -7, -7, -4, -4,
-4, -7, 2, -7, -4, -4, -4, -7, -4, -7, 2, 2, -7, -4, -4, -7, 2, -7, -4, 1, 0, 5, 0, 1, -7, -4, 5, 5, 0, 1, -4
, 1, 0, 11, 5, 11, 5, 5, -7, -4, -7, -7, 5, 5, 11, 5, 11, 0, 1, -4, 1, 0, 5, 5, -4, -7, 1, 0, 5, 0, 1, -7,
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-4, -7, -10, -10, -10, 5, 5, 11, 5, 11, -4, -4, 11, 8, 5, 11, -4, 11, 8, 0, 1, -4, 1, 0, 5, 5, -4, -7, 1, 0,
5, 0, 1, -4, -4, -4, -4, -4, 5, 5, 8, 8, -4, -7, -4, -7, -10, 1, 0, 5, 0, 1, -4, -4, 5, 8, 0, 1, -4, 1, 0]
: ##

eselar_8:= ## lprint(selar_8*ratiolar_8);
[0, 1, -4, 1, 0, 8, 8, -4, -4, 1, 0, 8, 0, 4, -10, -10, -10, -10, -10, 8, 8, 8, 8, -4, -4, -10, -4, -10, 1,
0, 8, 0, 4, -10, -10, 8, 8, 0, 4, -10, 4, 0, 8, 11, 2, 11, 8, 11, 11, 5, 5, 8, 5, 14, 5, 8, -10, -10, -10,
-10, -10, -10, -10, -10, -10, -10, 8, 8, 8, 8, 11, 11, 8, 8, 11, 11, -4, -4, -10, -4, -10, 5, 5, -10, -7, -4,
-10, 5, -10, -7, 1, 0, 8, 0, 4, -10, -10, 8, 8, 0, 4, -10, 4, 0, 8, 5, 14, 5, 8, -10, -10, -13, -13, 8, 8,
14, 8, 14, 0, 4, -10, 4, 0, 5, 8, -10, -13, 4, 0, 8, 0, 1, -4, -10, 2, -10, -10, 2, 2, -4, 2, -4, -4, -4, -4,
-4, -10, -10, -10, -10, -10, 2, 2, 2, 2, -4, 2, -16, 2, -4, -4, -4, -4, -4, -4, -4, -4, -4, -4, -4, -4, -4,
-4, -4, 8, 11, 2, 11, 8, 11, 11, 5, 5, 8, 5, 14, 5, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, -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, 8, 8, 8, 8, 11, 11, 8, 8, 11, 11, 2, 2, 2, 2, 11, 11, 8, 8, 8, 8, 11, 11, 2, 2, 11, 11, 8, 8, -4, -4,
-10, -4, -10, 5, 5, -10, -7, -4, -10, 5, -10, -7, -4, 2, -16, 2, -4, 5, 5, 8, 8, -10, -7, -16, -7, -10, -4,
-10, 5, -10, -7, 2, -4, 5, 8, -10, -7, -4, -7, -4, 1, 0, 8, 0, 4, -10, -10, 8, 8, 0, 4, -10, 4, 0, 8, 5, 14,
5, 8, -10, -10, -13, -13, 8, 8, 14, 8, 14, 0, 4, -10, 4, 0, 5, 8, -10, -13, 4, 0, 8, 0, 1, -4, -4, -4, -4,
-4, -4, -4, -4, -4, -4, -4, -4, -4, -4, 8, 5, 14, 5, 8, 8, 8, 8, 8, 8, -10, -10, -13, -13, -4, -4, -13, -13,
-10, -10, 8, 8, 14, 8, 14, -4, -4, 14, 8, 8, 14, -4, 14, 8, 0, 4, -10, 4, 0, 5, 8, -10, -13, 4, 0, 8, 0, 1,
-4, -4, -4, -4, -4, 5, 8, 8, 8, -10, -13, -4, -13, -10, 4, 0, 8, 0, 1, -4, -4, 8, 8, 0, 1, -4, 1, 0, 1, 4,
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4, 1, 1, 4, -5, 4, 1, 4, 7, -2, 7, 4, 7, 7, 1, 1, 4, 1, 10, 1, 4, -2, -2, -2, -2, -2, -2, -2, -2, -2, -2, 1,
1, -2, -2, 7, 7, -2, -2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 4, 1, 4, -5, -5, 4, 1, 1, 4,
-5, 4, 1, 4, 1, 10, 1, 4, -5, -5, -5, -5, 4, 1, 10, 1, 4, 1, 4, -5, 4, 1, 1, 4, -5, -5, 4, 1, 4, 1, 1, -3,
-6, 0, -6, -6, 0, 0, -3, 0, -3, -3, -3, -3, -3, -6, -6, -6, -6, -6, 0, 0, 0, 0, -3, 0, -9, 0, -3, -3, -3, -3,
-3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -6, 0, -6, -6, 0, 0, -3, 0, -3, -3, -3, -3, -3, -6, -6, -6,
-6, -6, 0, 0, 0, 0, -3, 0, -9, 0, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, -3, 5, 5, 5, 5, 5,
5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 2, 11, 2, 5, 2, 2, 8, 8, 5, 8, -1, 8, 5, 5, 11, -7, 11, 5, 11, 11, -1, -1, 5,
-1, 17, -1, 5, 5, 2, 11, 2, 5, 2, 2, 8, 8, 5, 8, -1, 8, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, -5, -5,
-5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5, -5,
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3, 3, 12, 12, 3, 3, 6, 6, 3, 3, 6, 6, -3, -3, 6, 6, 3, 3, 3, 3, 6, 6, -3, -3, -3, -3, 6, 6, 3, 3, 6, 6, 3, 3,
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5, -4, 5, 2, 2, 5, -4, 5, 2, 2, 2, 5, 5, -4, -4, 5, 5, 2, 2, -4, -4, -4, -4, -4, -4, -4, -4, -4, -4, -4,
-4, -4, -1, -4, 2, -4, -4, 5, 2, 2, 5, -4, -4, 2, -4, -1, -4, -4, -4, -4, -4, 5, 2, 5, 2, 2, 5, -4, 5, 2, -4
, -4, 2, -4, -1, -4, -4, 2, 2, -4, -1, -4, -1, -1, 0, -1, 4, -1, 0, -8, -8, 4, 4, -1, 0, -8, 0, -4, 10, 10,
10, 10, 10, -8, -8, -8, -8, 4, 4, 10, 4, 10, -1, 0, -8, 0, -4, 10, 10, -8, -8, 0, -4, 10, -4, 0, -8, -8, -8,
-8, -8, -8, -8, -8, -8, -8, -8, -8, -8, -8, 10, 10, 10, 10, 10, 10, 13, 4, 13, 10, -8, -8, -8, -8, -8, -8,
-8, -8, -8, -8, 4, 4, 10, 4, 10, -8, -8, 10, 4, 4, 10, -8, 10, 4, -1, 0, -8, 0, -4, 10, 10, -8, -8, 0, -4, 10,
-4, 0, -8, -8, -8, -8, -8, 10, 10, 13, 10, -8, -8, -8, -8, -8, 0, -4, 10, -4, 0, -8, -8, 10, 10, -4, 0, -8,
0, -1, 4, 4, 10, 4, 10, -8, -8, 10, 4, 4, 10, -8, 10, 4, 10, 4, 22, 4, 10, -8, -8, -8, -8, 10, 4, 22, 4,
10, 4, 10, -8, 10, 4, 4, 10, -8, -8, 10, 4, 10, 4, 4, -8, -8, -8, -8, -8, -8, -8, -8, -8, -8, -8, -8, -8, -8,
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