Example: *n = 35.*

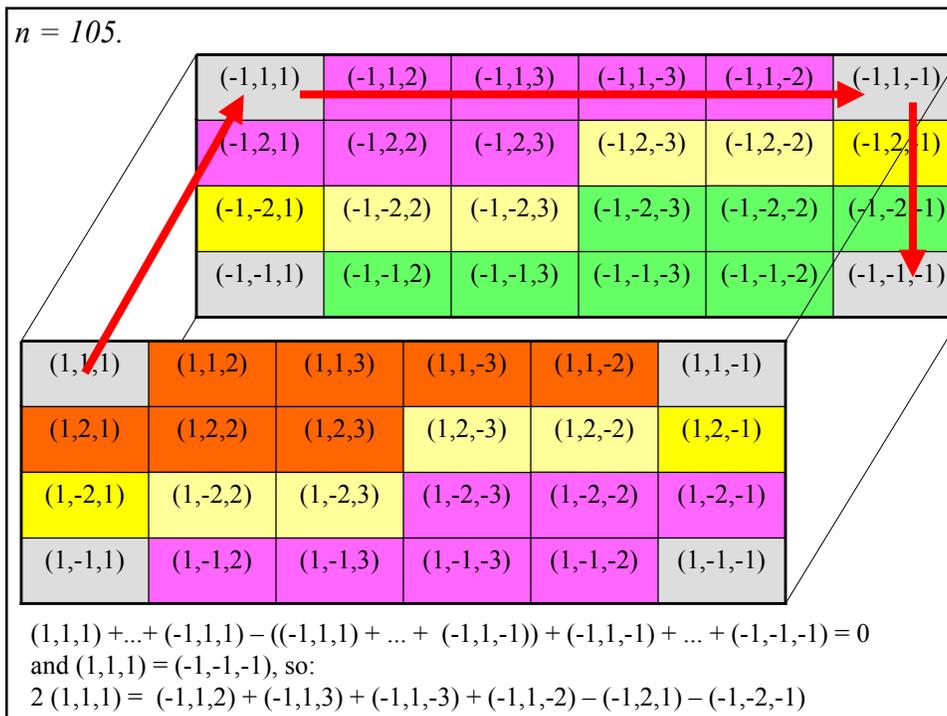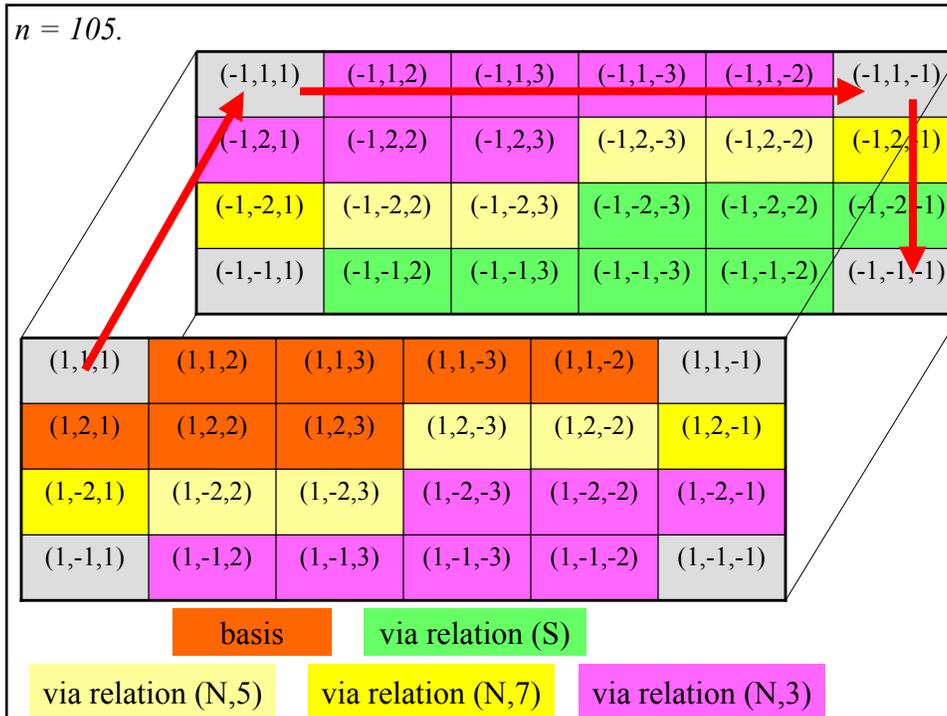| (1,1)	(1,2)	(1,3)	(1,-3)	(1,-2)	(1,-1)
(2,1)	(2,2)	(2,3)	(2,-3)	(2,-2)	(2,-1)
(-2,1)	(-2,2)	(-2,3)	(-2,-3)	(-2,-2)	(-2,-1)
(-1,1)	(-1,2)	(-1,3)	(-1,-3)	(-1,-2)	(-1,-1)

basis   via relation (S)

via relation (N,5)   via relation (N,7)

---

n = 105.

(-1,1,1)	(-1,1,2)	(-1,1,3)	(-1,1,-3)	(-1,1,-2)	(-1,1,-1)
(-1,2,1)	(-1,2,2)	(-1,2,3)	(-1,2,-3)	(-1,2,-2)	(-1,2,-1)
(-1,-2,1)	(-1,-2,2)	(-1,-2,3)	(-1,-2,-3)	(-1,-2,-2)	(-1,-2,-1)
(-1,-1,1)	(-1,-1,2)	(-1,-1,3)	(-1,-1,-3)	(-1,-1,-2)	(-1,-1,-1)

(1,1,1)	(1,1,2)	(1,1,3)	(1,1,-3)	(1,1,-2)	(1,1,-1)
(1,2,1)	(1,2,2)	(1,2,3)	(1,2,-3)	(1,2,-2)	(1,2,-1)
(1,-2,1)	(1,-2,2)	(1,-2,3)	(1,-2,-3)	(1,-2,-2)	(1,-2,-1)
(1,-1,1)	(1,-1,2)	(1,-1,3)	(1,-1,-3)	(1,-1,-2)	(1,-1,-1)

basis   via relation (S)

via relation (N,5)   via relation (N,7)   via relation (N,3)

n = 105.

(-1,1,1)	(-1,1,2)	(-1,1,3)	(-1,1,-3)	(-1,1,-2)	(-1,1,-1)
(-1,2,1)	(-1,2,2)	(-1,2,3)	(-1,2,-3)	(-1,2,-2)	(-1,2,-1)
(-1,-2,1)	(-1,-2,2)	(-1,-2,3)	(-1,-2,-3)	(-1,-2,-2)	(-1,-2,-1)
(-1,-1,1)	(-1,-1,2)	(-1,-1,3)	(-1,-1,-3)	(-1,-1,-2)	(-1,-1,-1)

(1,1,1)	(1,1,2)	(1,1,3)	(1,1,-3)	(1,1,-2)	(1,1,-1)
(1,2,1)	(1,2,2)	(1,2,3)	(1,2,-3)	(1,2,-2)	(1,2,-1)
(1,-2,1)	(1,-2,2)	(1,-2,3)	(1,-2,-3)	(1,-2,-2)	(1,-2,-1)
(1,-1,1)	(1,-1,2)	(1,-1,3)	(1,-1,-3)	(1,-1,-2)	(1,-1,-1)

basis   via relation (S)

via relation (N,5)   via relation (N,7)   via relation (N,3)

n = 105.

(-1,1,1)	(-1,1,2)	(-1,1,3)	(-1,1,-3)	(-1,1,-2)	(-1,1,-1)
(-1,2,1)	(-1,2,2)	(-1,2,3)	(-1,2,-3)	(-1,2,-2)	(-1,2,-1)
(-1,-2,1)	(-1,-2,2)	(-1,-2,3)	(-1,-2,-3)	(-1,-2,-2)	(-1,-2,-1)
(-1,-1,1)	(-1,-1,2)	(-1,-1,3)	(-1,-1,-3)	(-1,-1,-2)	(-1,-1,-1)

(1,1,1)	(1,1,2)	(1,1,3)	(1,1,-3)	(1,1,-2)	(1,1,-1)
(1,2,1)	(1,2,2)	(1,2,3)	(1,2,-3)	(1,2,-2)	(1,2,-1)
(1,-2,1)	(1,-2,2)	(1,-2,3)	(1,-2,-3)	(1,-2,-2)	(1,-2,-1)
(1,-1,1)	(1,-1,2)	(1,-1,3)	(1,-1,-3)	(1,-1,-2)	(1,-1,-1)

(1,1,1) +...+ (-1,1,1) − ((-1,1,1) + ... + (-1,1,-1)) + (-1,1,-1) + ... + (-1,-1,-1) = 0
and (1,1,1) = (-1,-1,-1), so:
2 (1,1,1) = (-1,1,2) + (-1,1,3) + (-1,1,-3) + (-1,1,-2) − (-1,2,1) − (-1,2,-1)

n = 105.

(-1,1,1)	(-1,1,2)	(-1,1,3)	(-1,1,-3)	(-1,1,-2)	(-1,1,-1)
(-1,2,1)	**B**	(-1,2,3)	(-1,2,-3)	**C**	(-1,2,-1)
(-1,-2,1)	(-1,-2,2)	(-1,-2,3)	(-1,-2,-3)	(-1,-2,-2)	(-1,-2,-1)
(-1,-1,1)	(-1,-1,2)	(-1,-1,3)	(-1,-1,-3)	**D**	(-1,-1,-1)

(1,1,1)	(1,1,2)	(1,1,3)	(1,1,-3)	(1,1,-2)	(1,1,-1)
(1,2,1)	**A**	(1,2,3)	(1,2,-3)	(1,2,-2)	(1,2,-1)
(1,-2,1)	(1,-2,2)	(1,-2,3)	(1,-2,-3)	(1,-2,-2)	(1,-2,-1)
(1,-1,1)	(1,-1,2)	(1,-1,3)	(1,-1,-3)	(1,-1,-2)	(1,-1,-1)

A + B – (B + C) + C + D = 0 and A = D, so:

2A = 0, i.e. A = 0, therefore:

(1,1,1) = - ((1,1,2) + (1,1,3) + (1,2,1) + (1,2,2) + (1,2,3))