Matrix representation of operator
in Fock representation

```
ANNIHILATION: 0 mat_elmt: ( 0,  1),  1
ANNIHILATION: 0 mat_elmt: ( 2,  3),  1
ANNIHILATION: 0 mat_elmt: ( 4,  5),  1
ANNIHILATION: 0 mat_elmt: ( 6,  7),  1
ANNIHILATION: 0 mat_elmt: ( 8,  9),  1
ANNIHILATION: 0 mat_elmt: (10, 11),  1
ANNIHILATION: 0 mat_elmt: (12, 13),  1
ANNIHILATION: 0 mat_elmt: (14, 15),  1
==========================================

ANNIHILATION: 1 mat_elmt: ( 0,  2),  1
ANNIHILATION: 1 mat_elmt: ( 1,  3), -1
ANNIHILATION: 1 mat_elmt: ( 4,  6),  1
ANNIHILATION: 1 mat_elmt: ( 5,  7), -1
ANNIHILATION: 1 mat_elmt: ( 8, 10),  1
ANNIHILATION: 1 mat_elmt: ( 9, 11), -1
ANNIHILATION: 1 mat_elmt: (12, 14),  1
ANNIHILATION: 1 mat_elmt: (13, 15), -1
==========================================

ANNIHILATION: 2 mat_elmt: ( 0,  4),  1
ANNIHILATION: 2 mat_elmt: ( 1,  5), -1
ANNIHILATION: 2 mat_elmt: ( 2,  6), -1
ANNIHILATION: 2 mat_elmt: ( 3,  7),  1
ANNIHILATION: 2 mat_elmt: ( 8, 12),  1
ANNIHILATION: 2 mat_elmt: ( 9, 13), -1
ANNIHILATION: 2 mat_elmt: (10, 14), -1
ANNIHILATION: 2 mat_elmt: (11, 15),  1
==========================================

ANNIHILATION: 3 mat_elmt: ( 0,  8),  1
ANNIHILATION: 3 mat_elmt: ( 1,  9), -1
ANNIHILATION: 3 mat_elmt: ( 2, 10), -1
ANNIHILATION: 3 mat_elmt: ( 3, 11),  1
ANNIHILATION: 3 mat_elmt: ( 4, 12), -1
ANNIHILATION: 3 mat_elmt: ( 5, 13),  1
```

```
CREATION: 0 mat_elmt: ( 1,  0),  1
CREATION: 0 mat_elmt: ( 3,  2),  1
CREATION: 0 mat_elmt: ( 5,  4),  1
CREATION: 0 mat_elmt: ( 7,  6),  1
CREATION: 0 mat_elmt: ( 9,  8),  1
CREATION: 0 mat_elmt: (11, 10),  1
CREATION: 0 mat_elmt: (13, 12),  1
CREATION: 0 mat_elmt: (15, 14),  1
===================================

CREATION: 1 mat_elmt: ( 2,  0),  1
CREATION: 1 mat_elmt: ( 3,  1), -1
CREATION: 1 mat_elmt: ( 6,  4),  1
CREATION: 1 mat_elmt: ( 7,  5), -1
CREATION: 1 mat_elmt: (10,  8),  1
CREATION: 1 mat_elmt: (11,  9), -1
CREATION: 1 mat_elmt: (14, 12),  1
CREATION: 1 mat_elmt: (15, 13), -1
===================================

CREATION: 2 mat_elmt: ( 4,  0),  1
CREATION: 2 mat_elmt: ( 5,  1), -1
CREATION: 2 mat_elmt: ( 6,  2), -1
CREATION: 2 mat_elmt: ( 7,  3),  1
CREATION: 2 mat_elmt: (12,  8),  1
CREATION: 2 mat_elmt: (13,  9), -1
CREATION: 2 mat_elmt: (14, 10), -1
CREATION: 2 mat_elmt: (15, 11),  1
===================================

CREATION: 3 mat_elmt: ( 8,  0),  1
CREATION: 3 mat_elmt: ( 9,  1), -1
CREATION: 3 mat_elmt: (10,  2), -1
CREATION: 3 mat_elmt: (11,  3),  1
```

```
CREATION: 3 mat_elmt: (12,  4), -1
CREATION: 3 mat_elmt: (13,  5),  1
CREATION: 3 mat_elmt: (14,  6),  1
CREATION: 3 mat_elmt: (15,  7), -1
===================================
```