

①

	0	1	2	3	4
0	a	b	c	d	e
1	f	g	h	i	j
2	k	l	m	n	o
3	p	q	r	s	t
4	u	v	w	x	y



	0	1	2	3	4
0	e	d	c	b	a
1	j	i	h	g	f
2	o	n	m	l	k
3	t	s	r	q	p
4	y	x	w	v	u

reverse

②

	0	1	2	3	4
0	a	b	c	d	e
1	f	g	h	i	j
2	k	l	m	n	o
3	p	q	r	s	t
4	u	v	w	x	y

90°

rotation

	0	1	2	3	4
0	u	p	k	f	a
1	v	q	l	g	b
2	w	r	m	h	c
3	x	s	n	i	d
4	y	t	o	j	e

T' ↓

	0	1	2	3	4
0	a	f	k	p	u
1	b	g	l	q	v
2	c	h	m	r	w
3	d	i	n	s	x
4	e	j	o	t	y

reverse columns

	0	1	2	3	4
0	a	b	c	d	e
1	f	g	h	i	j
2	k	l	m	n	o
3	p	q	r	s	t
4	u	v	w	x	y

$$(a + b + c + d) = (e + f + g + h)$$

$$= (i + j + k + l)$$

	0	1	2	3	4
0	a	b	c	d	e
1	f	g	h	i	j
2	k	l	m	n	o
3	p	q	r	s	t
4	u	v	w	x	y