Initialization

	0	1	2	3
0	1	2	3	4
1	12	13	14	5
2	11	16	15	6
3	10	9	8	7

input =

```
int last_position = input.length-1;

int i = 0;

int j = last_position;

int temp;
```

Values

last_position	3
i	0
j	3
temp	null

Loop #1

```
temp = input[0][i]
     = input[0][0]
     = 1
```

```
input[0][i] = input[i][last_position]
input[0][0] = input[0][3]
            = 4
```

```
input[i][last_position] = input[last_position][j];
input[0][3] = input[3][3]
            = 7
```

```
input[last_position][j] = input[j][0];
input[3][3] = input[3][0]
            = 10
```

```
input[j][0] = temp;
input[3][0] = 1
```

```
i++;
j--;
```

---

input =

	0	1	2	3
0	1	2	3	4
1	12	13	14	5
2	11	16	15	6
3	10	9	8	7

Values

last_position	3
i	0
j	3
temp	1

input =

	0	1	2	3
0	4	2	3	4
1	12	13	14	5
2	11	16	15	6
3	10	9	8	7

Values

last_position	3
i	0
j	3
temp	1

input =

	0	1	2	3
0	4	2	3	7
1	12	13	14	5
2	11	16	15	6
3	10	9	8	7

Values

last_position	3
i	0
j	3
temp	1

input =

	0	1	2	3
0	4	2	3	7
1	12	13	14	5
2	11	16	15	6
3	10	9	8	10

Values

last_position	3
i	0
j	3
temp	1

input =

	0	1	2	3
0	4	2	3	7
1	12	13	14	5
2	11	16	15	6
3	1	9	8	10

Values

last_position	3
i	1
j	2
temp	1

Loop #2

```
temp = input[0][i]
     = input[0][1]
     = 2
```

```
input[0][i] = input[i][last_position]
input[0][1] = input[1][3]
            = 5
```

```
input[i][last_position] = input[last_position][j];
input[1][3] = input[3][2]
            = 8
```

```
input[last_position][j] = input[j][0];
input[3][2] = input[2][0]
            = 11
```

```
input[j][0] = temp;
input[2][0] = 2


i++;
j--;
```

---

input =

	0	1	2	3
0	4	2	3	7
1	12	13	14	5
2	11	16	15	6
3	1	9	8	10

Values

last_position	3
i	1
j	2
temp	2

input =

	0	1	2	3
0	4	5	3	7
1	12	13	14	5
2	11	16	15	6
3	1	9	8	10

Values

last_position	3
i	1
j	2
temp	2

input =

	0	1	2	3
0	4	5	3	7
1	12	13	14	8
2	11	16	15	6
3	1	9	8	10

Values

last_position	3
i	1
j	2
temp	2

input =

	0	1	2	3
0	4	5	3	7
1	12	13	14	8
2	11	16	15	6
3	1	9	11	10

Values

last_position	3
i	1
j	2
temp	2

input =

	0	1	2	3
0	4	5	3	7
1	12	13	14	8
2	2	16	15	6
3	1	9	11	10

Values

last_position	3
i	2
j	1
temp	2

Loop #2

```
temp = input[0][i]
     = input[0][2]
     = 3
```

```
input[0][i] = input[i][last_position]
input[0][2] = input[2][3]
            = 6
```

```
input[i][last_position] = input[last_position][j];
input[2][3] = input[3][1]
            = 9
```

```
input[last_position][j] = input[j][0];
input[3][1] = input[1][0]
            = 12
```

```
input[j][0] = temp;
input[1][0] = 3
```

```
i++;
j--;
```

input =

	0	1	2	3
0	4	5	3	7
1	12	13	14	8
2	2	16	15	6
3	1	9	11	10

Values

last_position	3
i	2
j	1
temp	3

input =

	0	1	2	3
0	4	5	6	7
1	12	13	14	8
2	2	16	15	6
3	1	9	11	10

Values

last_position	3
i	2
j	1
temp	3

input =

	0	1	2	3
0	4	5	6	7
1	12	13	14	8
2	2	16	15	9
3	1	9	11	10

Values

last_position	3
i	2
j	1
temp	3

input =

	0	1	2	3
0	4	5	6	7
1	12	13	14	8
2	2	16	15	9
3	1	12	11	10

Values

last_position	3
i	2
j	1
temp	3

input =

	0	1	2	3
0	4	5	6	7
1	3	13	14	8
2	2	16	15	9
3	1	12	11	10

Values

last_position	3
i	3
j	0
temp	3

Loop breaks here