Selection Sort

	i= 0	j= 1	j= 2	j= 3	j= 4	j= 5
a	45	56	23	87	16	54

min = ~~45~~ ~~23~~ 16
k = ~~0~~ ~~2~~ 4

	0	1	2	i=3	j= 4	j= 5
a	16	23	45	87	56	54

min = ~~87~~ ~~56~~ 54
k = ~~3~~ ~~4~~ 5

	0	i= 1	j= 2	j= 3	j= 4	j= 5
a	16	56	23	87	45	54

min = ~~56~~ 23
k = ~~1~~ 2

	0	1	2	3	i= 4	j= 5
a	16	23	45	54	56	87

min=56
k =4

	0	1	i= 2	j= 3	j= 4	j= 5
a	16	23	56	87	45	54

min = ~~56~~ 45
k = ~~2~~ 4

	0	1	2	3	4	5
a	16	23	45	54	56	87

n = number of elements
i = n-2
j = n-1

	i= 0	j= 1	j= 2	j= 3	j= 4
a	89	45	68	90	29

min = ~~89~~ ~~45~~ 29
k = ~~0~~ ~~1~~ 4

	0	i= 1	j= 2	j= 3	j= 4
a	29	45	68	90	89

min = 45
k = 1

	0	1	i= 2	j= 3	j= 4
a	29	45	68	90	89

min = 68
k = 2

	0	1	2	i= 3	j= 4
a	29	45	68	90	89

min = ~~90~~ 89
k = ~~3~~ 4

Output

	0	1	2	3	4
a	29	45	68	89	90

Output

	0	1	2	3	4	5	6
a	E	X	A	M	P	L	E

n=5

i
0thCycle
93—85 74 63 42
85 93—74 63 42
85 74 93—63 42
85 74 63 93—42
85 74 63 42 93

j-> comparison
4 comparisons

2ndCycle
74—63 42
63 74—42
63 42 74

2 comparisons

3rdCycle 63-42

1 comparison

1stCycle
85—74 63 42
74 85—63 42
74 63 85—42
74 63 42 85

3 comparisons

42 63
Output

42 63 74 85 93

Equation
i = n-2
j = n-2-i
j = 0 to 3
= 0, 1, 2, 3

Both are same
i=0 i<n
i=0 i<=n-1

i=0 i<n-1
i=0 i<=n-2

	0	1	2	3	4	5	6
a	E	X	A	M	P	L	E

	0	1	2	3	4
a	89	45	68	90	29