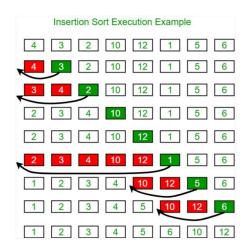
BUBBLESORT

i = 0	j	0	1	2	3	4	5	6	7
	0	5	3	1	9	8	2	4	7
	1		5	1	9	8	2	4	7
	2	3	1	5	9	8	2	4	7 7 7 7 7 7 9
	2	3	1	5	9	8	2	4	7
	4 5 6	3	1	5	8	9	2	4	7
	5	3	1	5	8	2	9	4	7
	6	3 3 3 3 3 3 1 1	1	5	8	8 9 2 2 2 2 2 2 2 8 4	2 2 2 2 9 4 4 4 4 4 4 4 7 7 7 7	9	7
i=I	0	3	1	5	8	2	4	7	9
	0 1 2 3 4 5	1	3	5	8	2	4	7 7 7 7 7	
	2	1	3	5	8	2	4	7	
	3	1	3	5	8	2	4	7	
	4	1	3	5	2	8	4	7	
		1	3	5	8 8 8 2 2 2 2 2 5 4		8		
i = 2	0 1 2 3 4	1 1 1	3	5	2	4 4 4 4	7	8	
	1	1	3	5	2	4	7		
	2	1	3	5	2	4	7		
	3	1	3	2	5	4	7		
		1	3	2		5	7		
i = 3	0 1 2 3	1 1 1	3	2	4 4 4	5	7		
	1	1	3	2	4	5			
	2		2	3	4	5			
	3	1	2	3	4	5 5 5 5 5			
i =: 4	0	1	2	3	4	5			
	1	1	2	3	4				
	2	1	1 3 3 3 3 3 3 3 3 3 3 3 3 3 2 2 2 2 2 2	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5					
i = 5	0	1	2	3	4				
	1	1	2	3					
i = 6	0	1	2	3					
		1	2						

INSERTION



Another Example:

12, 11, 13, 5, 6

Let us loop for i = 1 (second element of the array) to 4 (last element of the array)

i = 1. Since 11 is smaller than 12, move 12 and insert 11 before 12

11, 12, 13, 5, 6

i = 2.13 will remain at its position as all elements in A[0..I-1] are smaller than 13

11, 12, 13, 5, 6

i = 3.5 will move to the beginning and all other elements from 11 to 13 will move one position ahead of their current position. 5, 11, 12, 13, 6

i = 4.6 will move to position after 5, and elements from 11 to 13 will move one position ahead of their current position. 5, 6, 11, 12, 13

SELECTION

```
arr[] = 64 25 12 22 11

// Find the minimum element in arr[0...4]

// and place it at beginning

11 25 12 22 64

// Find the minimum element in arr[1...4]

// and place it at beginning of arr[1...4]

11 12 25 22 64

// Find the minimum element in arr[2...4]

// and place it at beginning of arr[2...4]

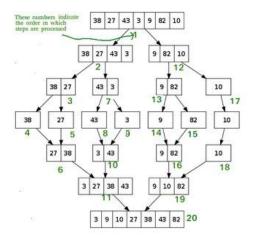
11 12 22 25 64

// Find the minimum element in arr[3...4]

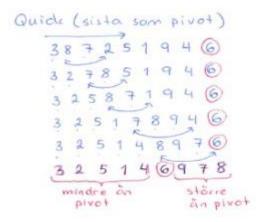
// and place it at beginning of arr[3...4]

11 12 22 25 64
```

MERGE



QUICK



ABCDEFGHIJ

Insattning

GCAEJHBFID C G A E J H B F I D A C E G J H B F I D

Slutet ar orart och början ar sorterad.

GCAEJHBFID CGAEJHBFID CAEGHBEID CAEGHBEID CAEGHBEID

Franteralle G, men även I hav skjuhis längre bak. Dock svärt att se clä varvet inte äv färdigt -testa

Orval A CGEJHBFID A BIGEJHOFID A B CIEJHGFID A B CIEJHGFID ABC DIJH GFIE

De lägsta ligger sorterade først

Quick (1:a som pivot)

GCAEBHJFID

GCAEBFJHID

GCAEBFDHIJ

DCAEBFGHIJ

Alla lägre in Gligger till rinster och alla higger ligger till higger