

Selection Sort

0	1	2	3	4	5	6	7	8	9
42	33	75	18	15	22	10	8	72	55

Cell Being Sorted

Current Minimum

Current Location



Selection Sort

0	1	2	3	4	5	6	7	8	9
42	33	75	18	15	22	10	8	72	55

Cell Being Sorted

Current Minimum

Current Location

The diagram illustrates the state of an array during a selection sort iteration. The array contains 10 elements. Element 0 (42) is highlighted in red and has a red arrow above it labeled "Cell Being Sorted". Element 6 (10) is highlighted in green and has a green double-headed arrow above it labeled "Current Minimum". A black arrow points to element 7 (8), labeled "Current Location".

Selection Sort

0	1	2	3	4	5	6	7	8	9
42	33	75	18	15	22	10	8	72	55

Cell Being Sorted

Current Minimum

Current Location

The diagram illustrates the state of an array during a selection sort iteration. The array contains 10 elements. Element 0 (42) is highlighted in red and has a red arrow pointing to it labeled "Cell Being Sorted". Element 1 (33) is highlighted in green and has a green arrow pointing to it labeled "Current Minimum". A black arrow points to element 2 (75) labeled "Current Location".

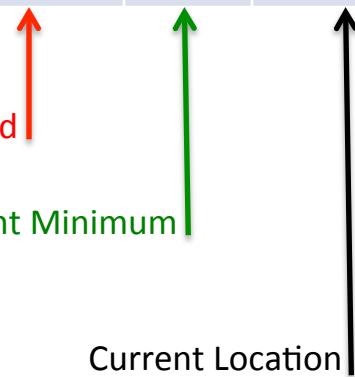
Selection Sort

0	1	2	3	4	5	6	7	8	9
42	33	75	18	15	22	10	8	72	55

Cell Being Sorted

Current Minimum

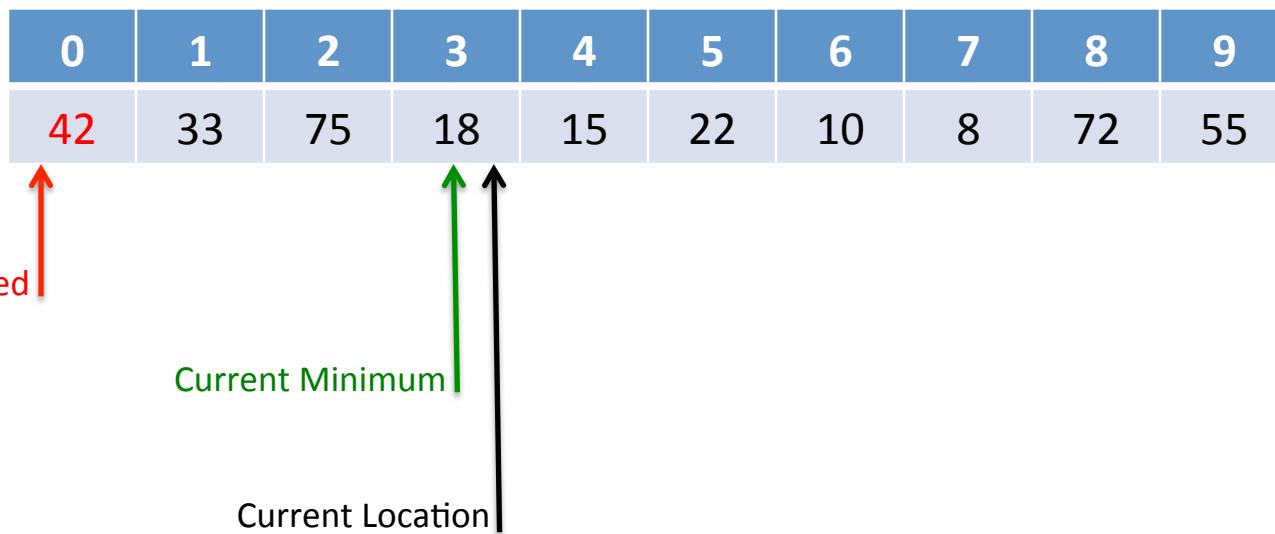
Current Location



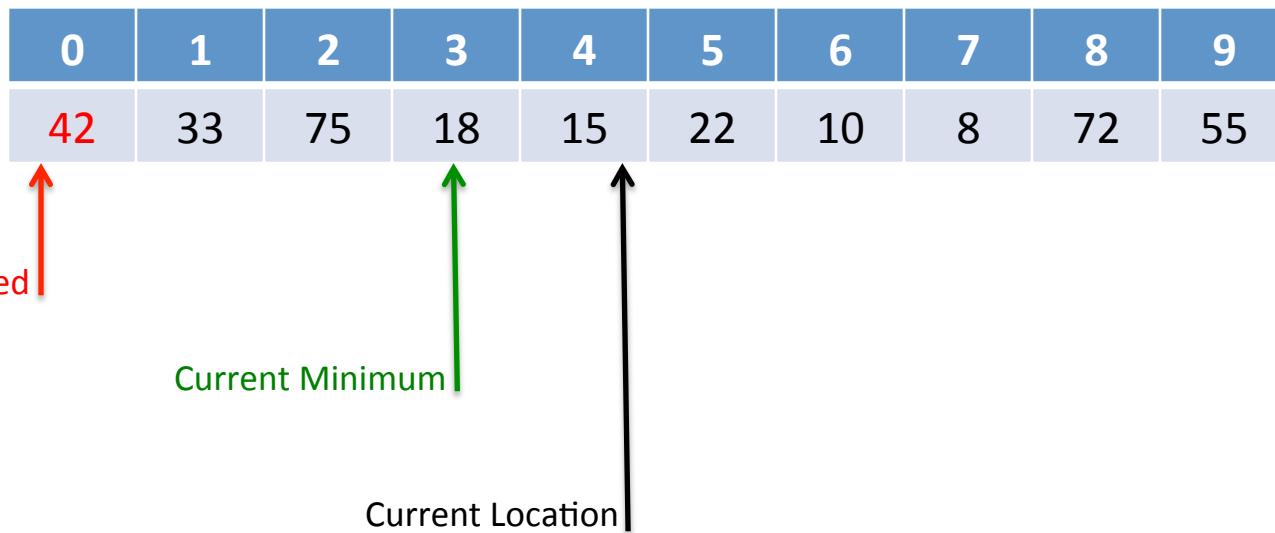
Selection Sort



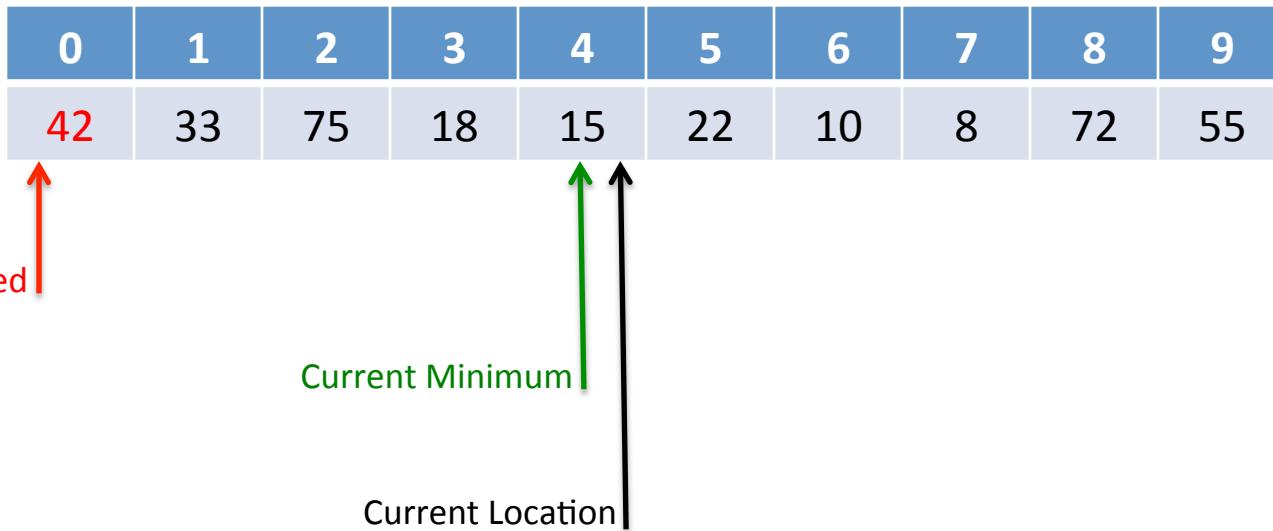
Selection Sort



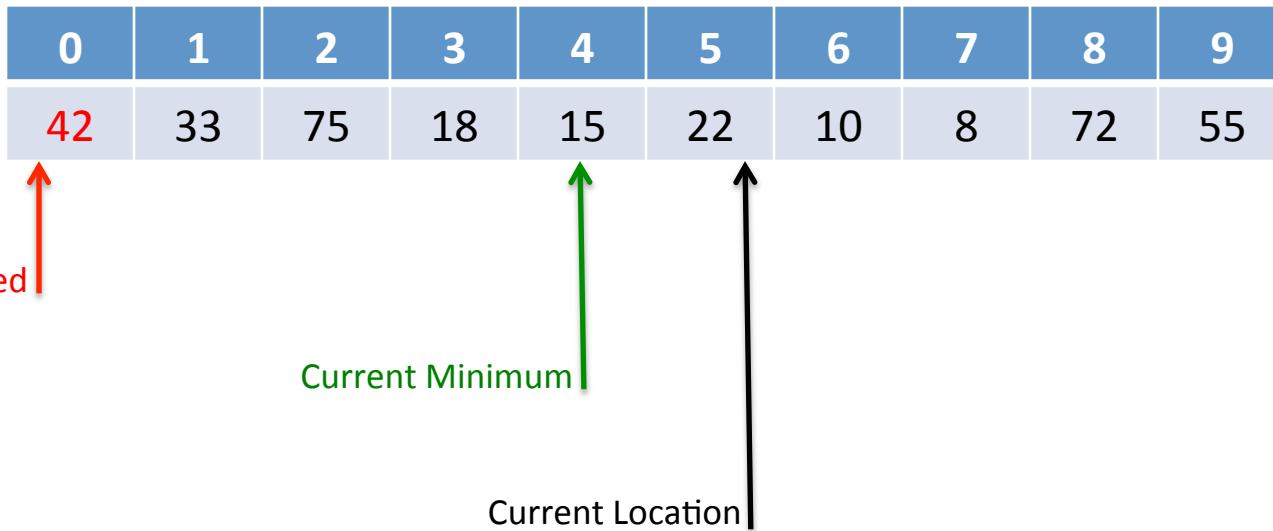
Selection Sort



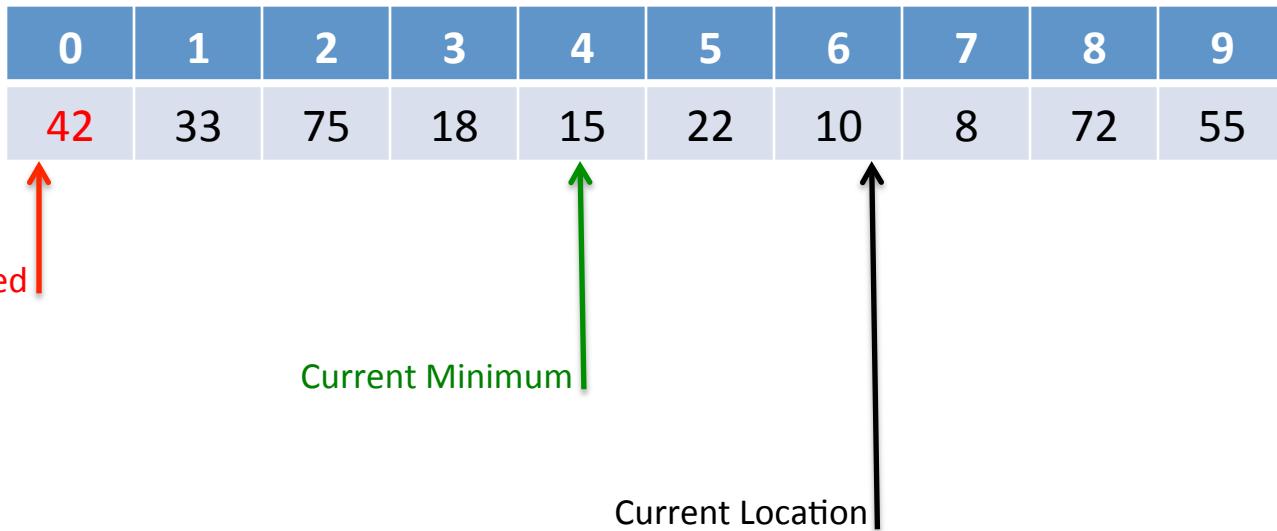
Selection Sort



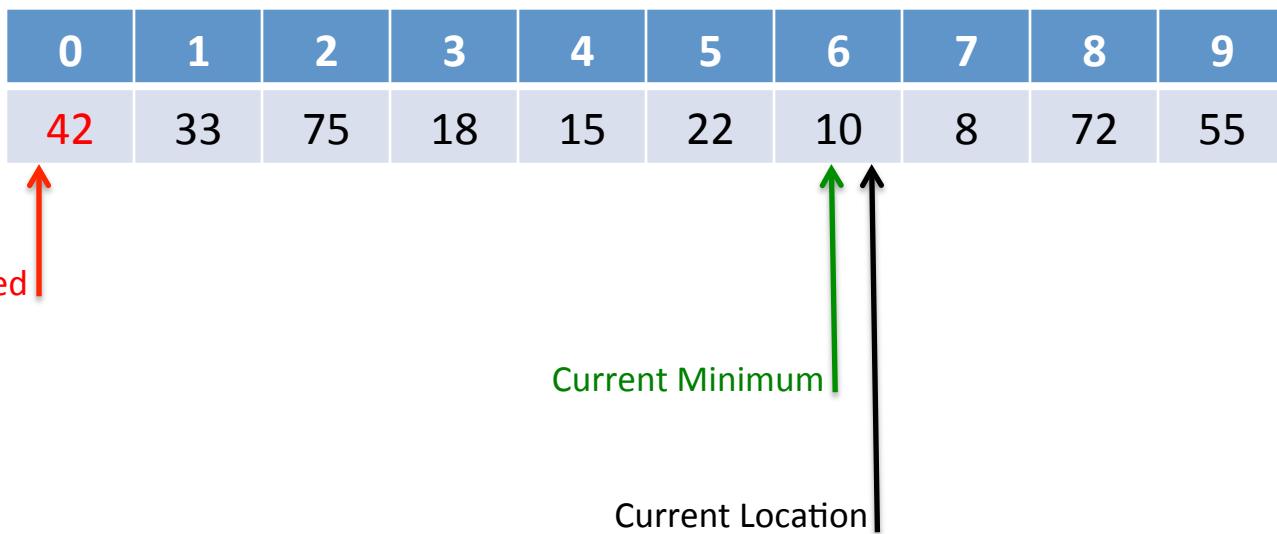
Selection Sort



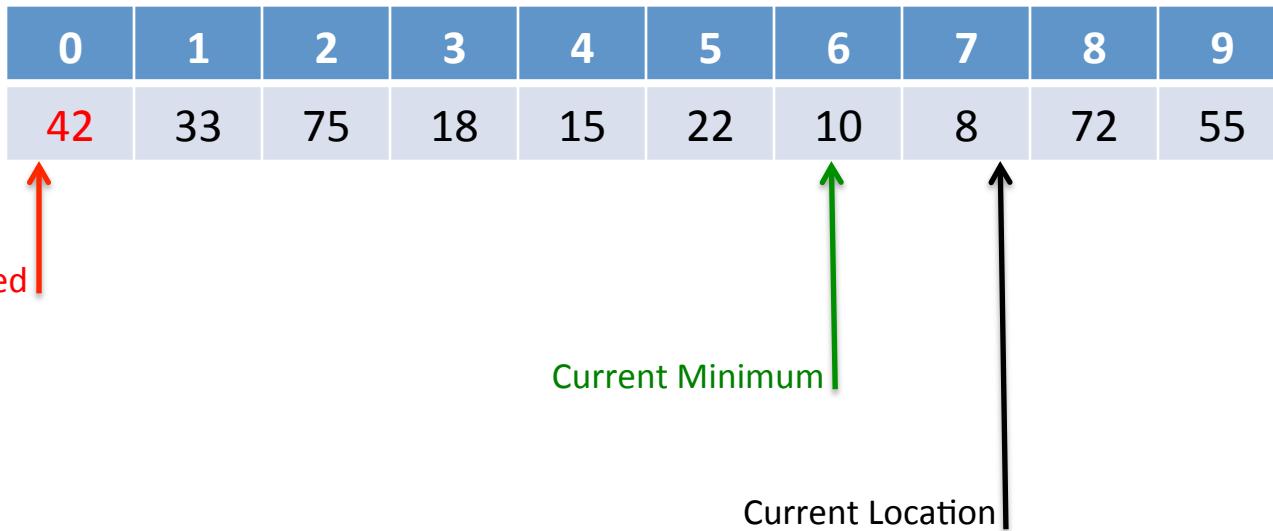
Selection Sort



Selection Sort



Selection Sort



Selection Sort

0	1	2	3	4	5	6	7	8	9
42	33	75	18	15	22	10	8	72	55

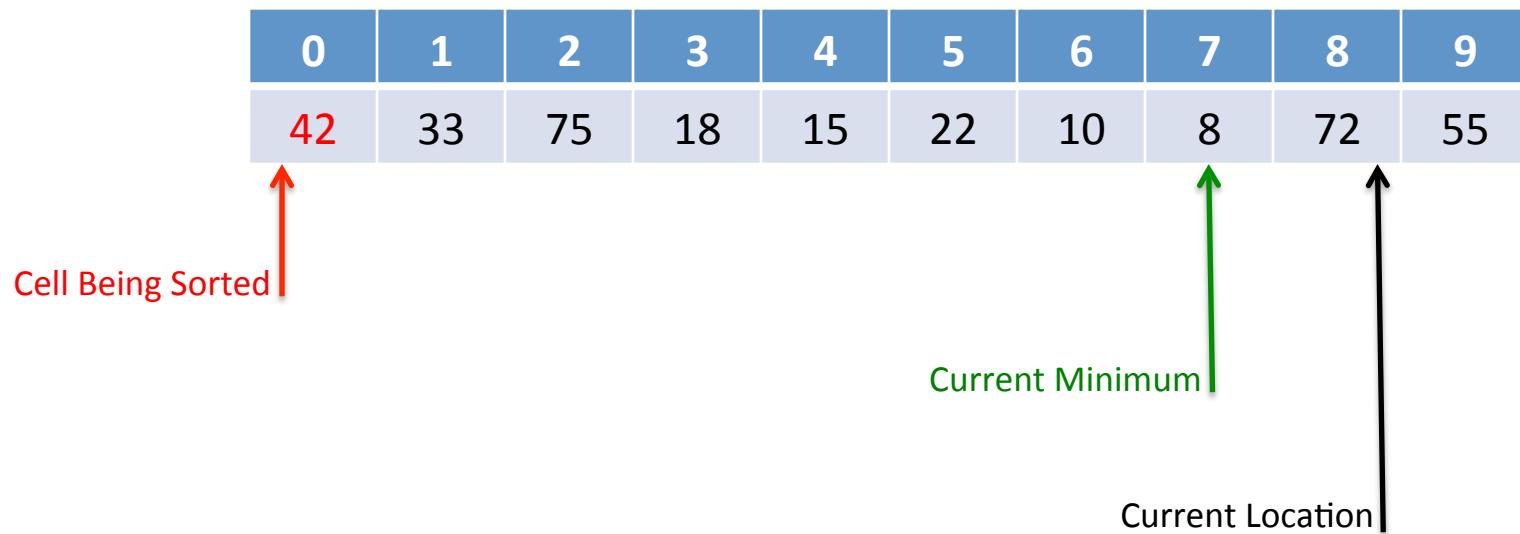
Cell Being Sorted

Current Minimum

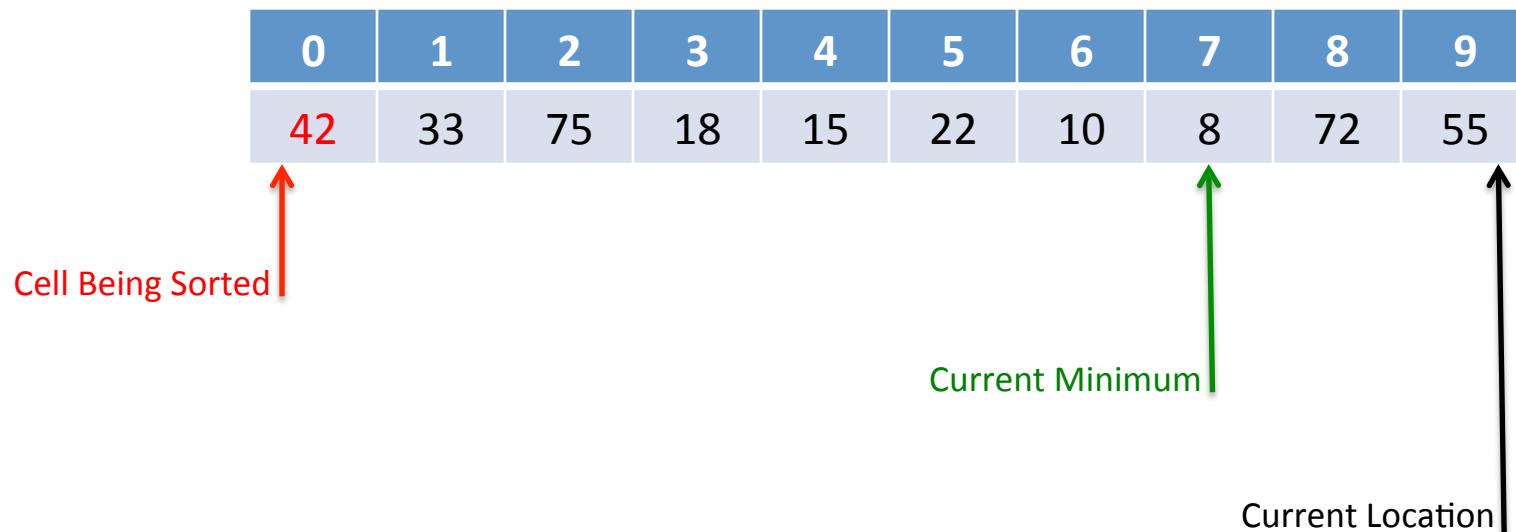
Current Location

A diagram illustrating the Selection Sort algorithm. An array of 10 elements is shown in a table. The first element, index 0 (42), is highlighted in red and has a red arrow pointing to it labeled "Cell Being Sorted". The eighth element, index 7 (8), is highlighted in green, and there are two arrows pointing to it: one green arrow labeled "Current Minimum" and one black arrow labeled "Current Location". The other elements in the array are 33, 75, 18, 15, 22, 10, 72, and 55.

Selection Sort



Selection Sort



Selection Sort

0	1	2	3	4	5	6	7	8	9
42	33	75	18	15	22	10	8	72	55

Cell Being Sorted

Current Minimum

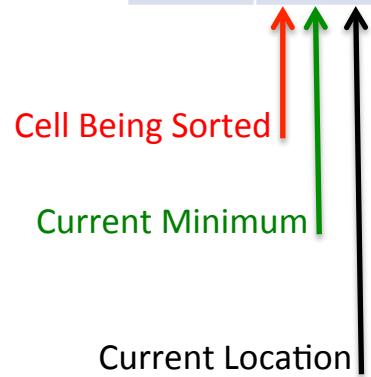
A diagram illustrating the Selection Sort algorithm. It shows an array of 10 elements, indexed from 0 to 9. The elements are: 42, 33, 75, 18, 15, 22, 10, 8, 72, 55. Element 0 (42) is highlighted in red and has a red arrow pointing to it labeled "Cell Being Sorted". Element 7 (8) is highlighted in green and has a green arrow pointing to it labeled "Current Minimum".

Selection Sort

0	1	2	3	4	5	6	7	8	9
8	33	75	18	15	22	10	42	72	55

Selection Sort

0	1	2	3	4	5	6	7	8	9
8	33	75	18	15	22	10	42	72	55



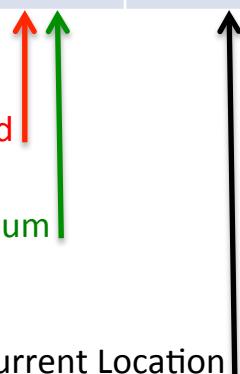
Selection Sort

0	1	2	3	4	5	6	7	8	9
8	33	75	18	15	22	10	42	72	55

Cell Being Sorted

Current Minimum

Current Location



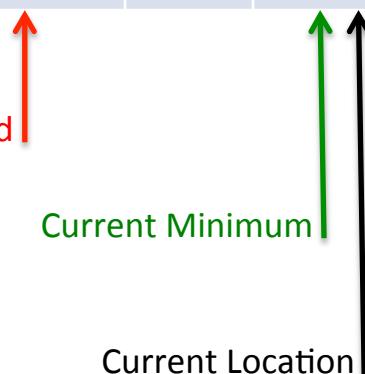
Selection Sort

0	1	2	3	4	5	6	7	8	9
8	33	75	18	15	22	10	42	72	55

Cell Being Sorted

Current Minimum

Current Location



Selection Sort

0	1	2	3	4	5	6	7	8	9
8	33	75	18	15	22	10	42	72	55

Cell Being Sorted

Current Minimum

Current Location



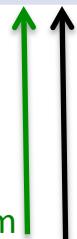
Selection Sort

0	1	2	3	4	5	6	7	8	9
8	33	75	18	15	22	10	42	72	55

Cell Being Sorted



Current Minimum



Current Location



Selection Sort

0	1	2	3	4	5	6	7	8	9
8	33	75	18	15	22	10	42	72	55

Cell Being Sorted

Current Minimum

Current Location

Selection Sort

0	1	2	3	4	5	6	7	8	9
8	33	75	18	15	22	10	42	72	55

Cell Being Sorted

Current Minimum

Current Location

Selection Sort

0	1	2	3	4	5	6	7	8	9
8	33	75	18	15	22	10	42	72	55

Cell Being Sorted



Current Minimum

Current Location



Selection Sort

0	1	2	3	4	5	6	7	8	9
8	33	75	18	15	22	10	42	72	55

Cell Being Sorted

Current Minimum

Current Location

Selection Sort

0	1	2	3	4	5	6	7	8	9
8	33	75	18	15	22	10	42	72	55

Cell Being Sorted

Current Minimum

Current Location

Selection Sort

0	1	2	3	4	5	6	7	8	9
8	33	75	18	15	22	10	42	72	55

Cell Being Sorted

Current Minimum

Current Location

Selection Sort

0	1	2	3	4	5	6	7	8	9
8	33	75	18	15	22	10	42	72	55

Cell Being Sorted



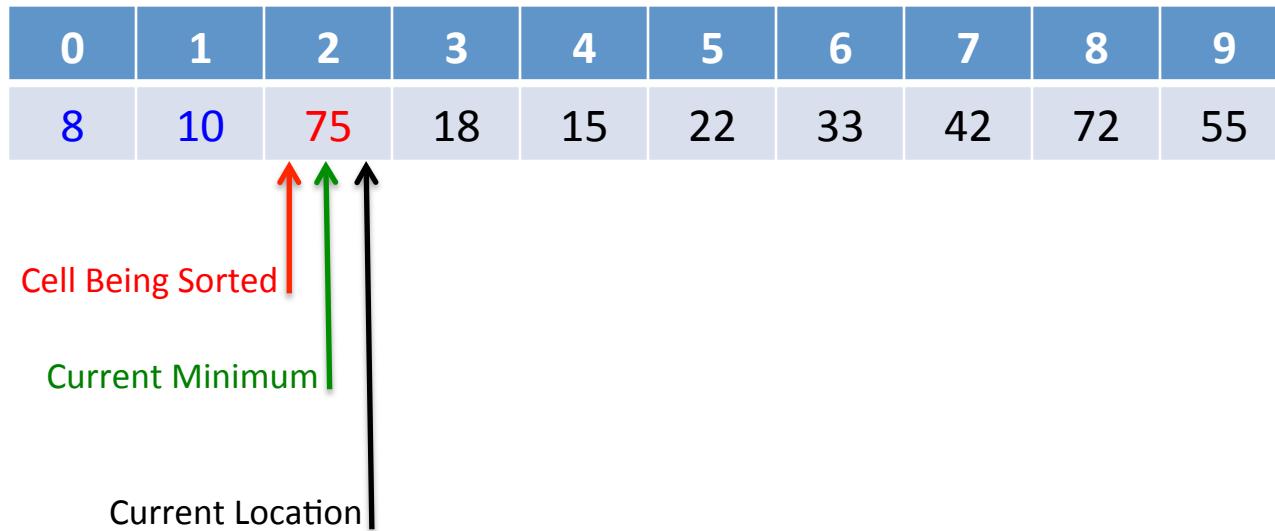
Current Minimum



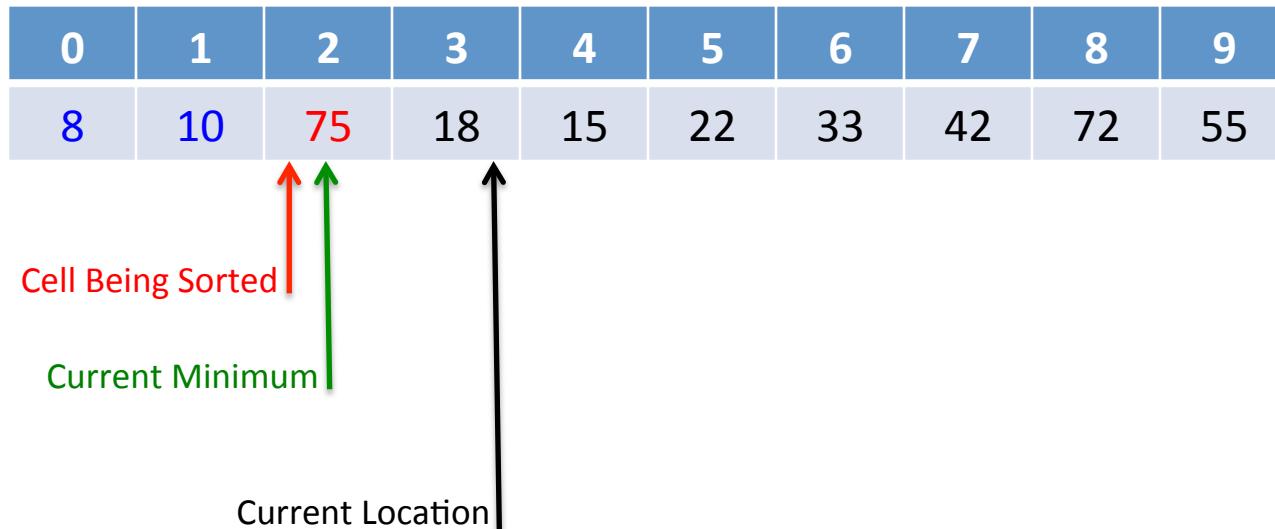
Selection Sort

0	1	2	3	4	5	6	7	8	9
8	10	75	18	15	22	33	42	72	55

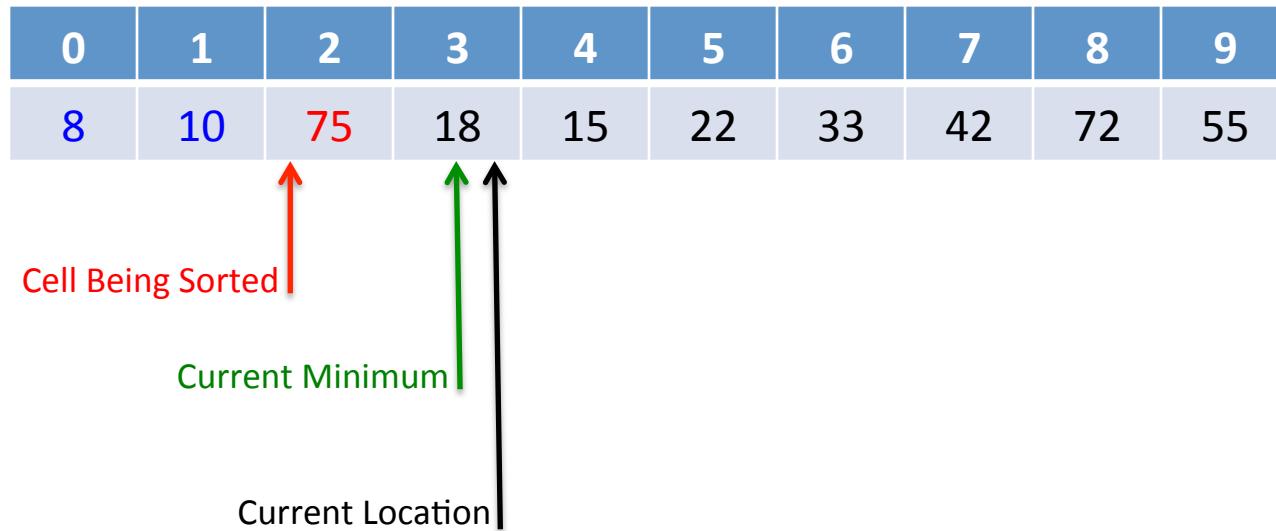
Selection Sort



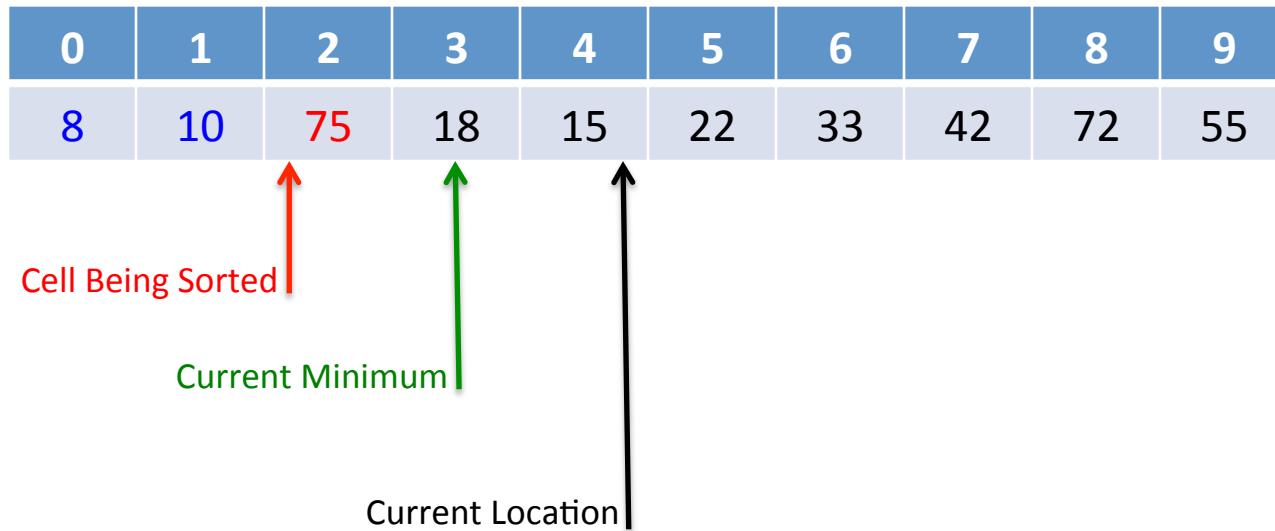
Selection Sort



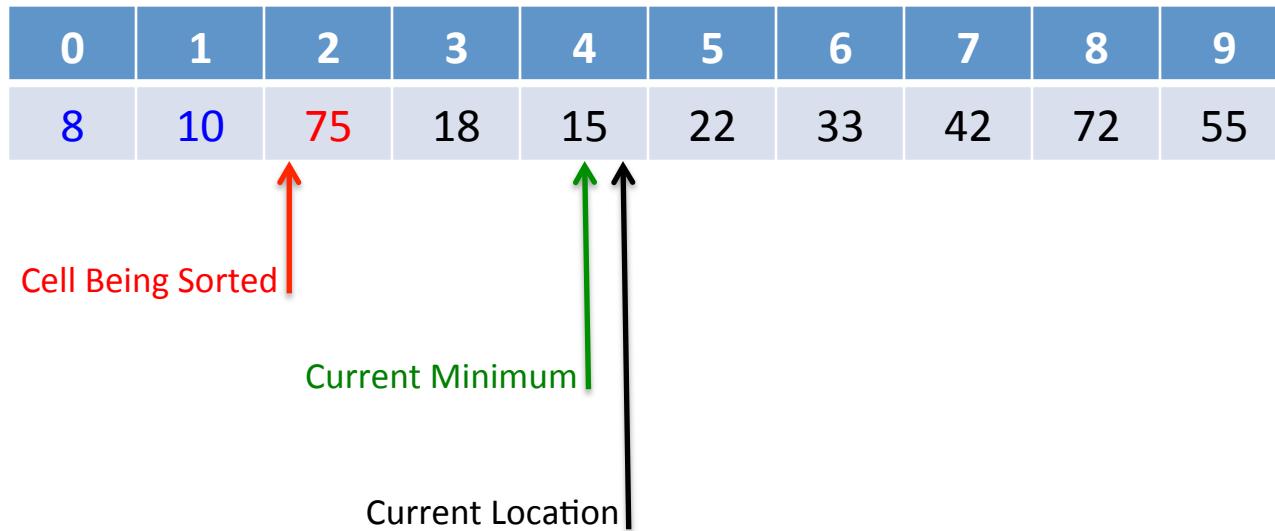
Selection Sort



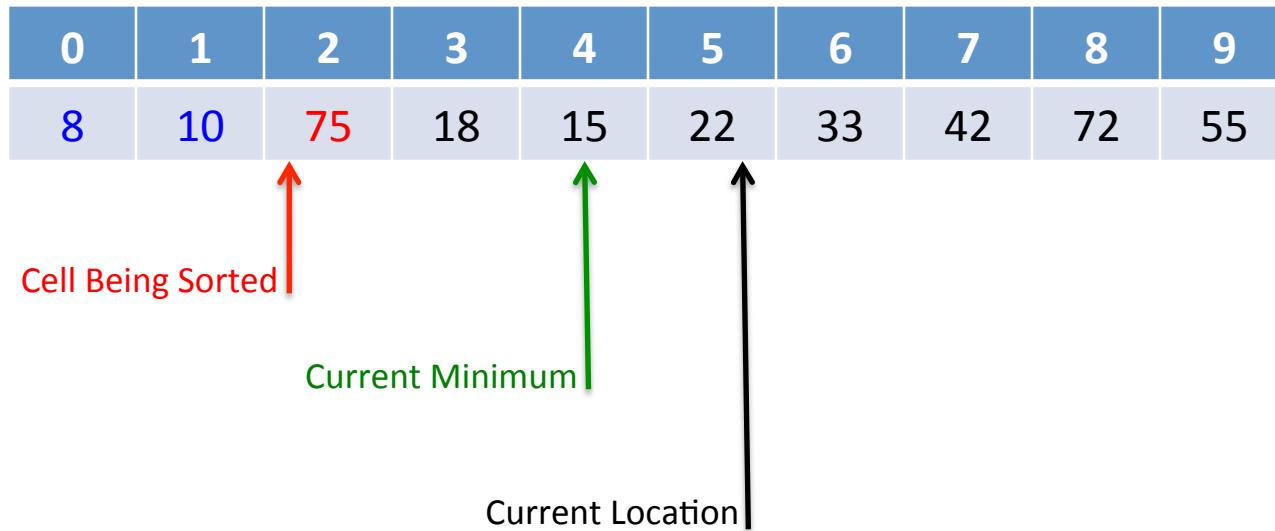
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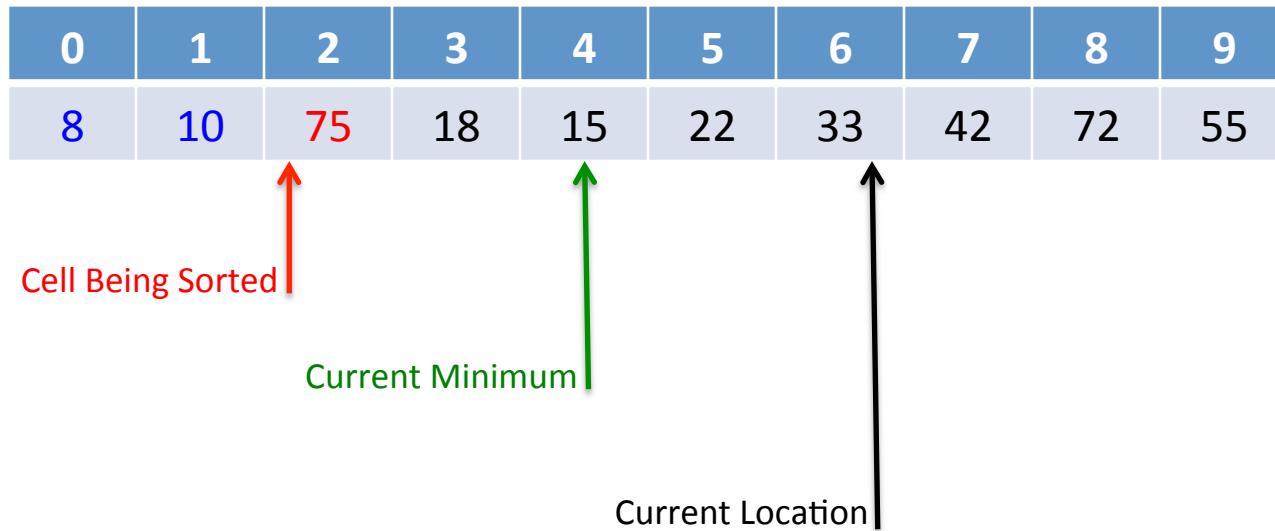
Selection Sort



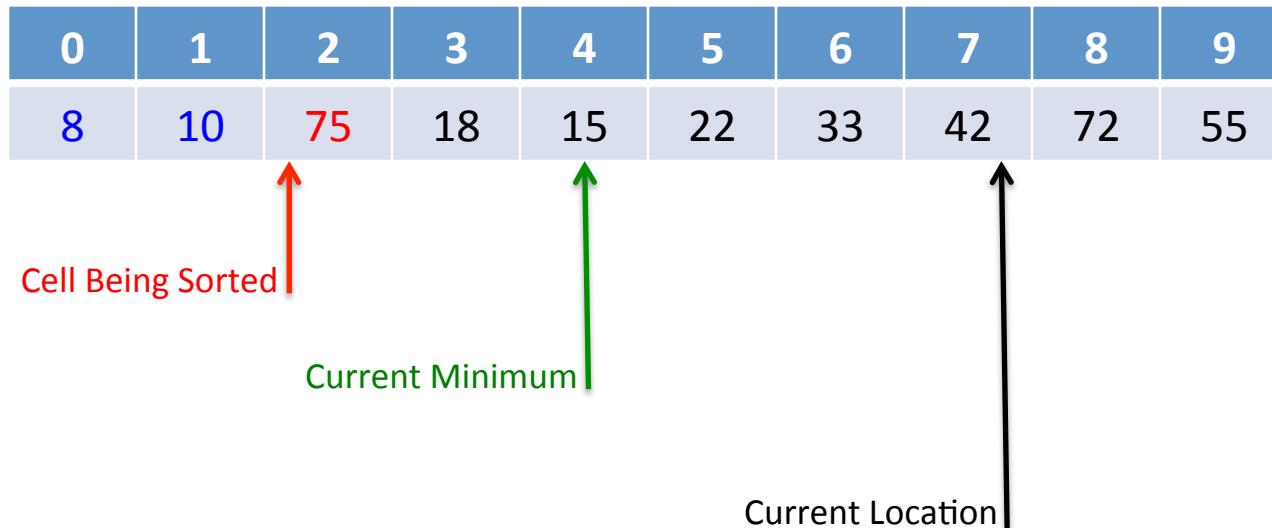
Selection Sort



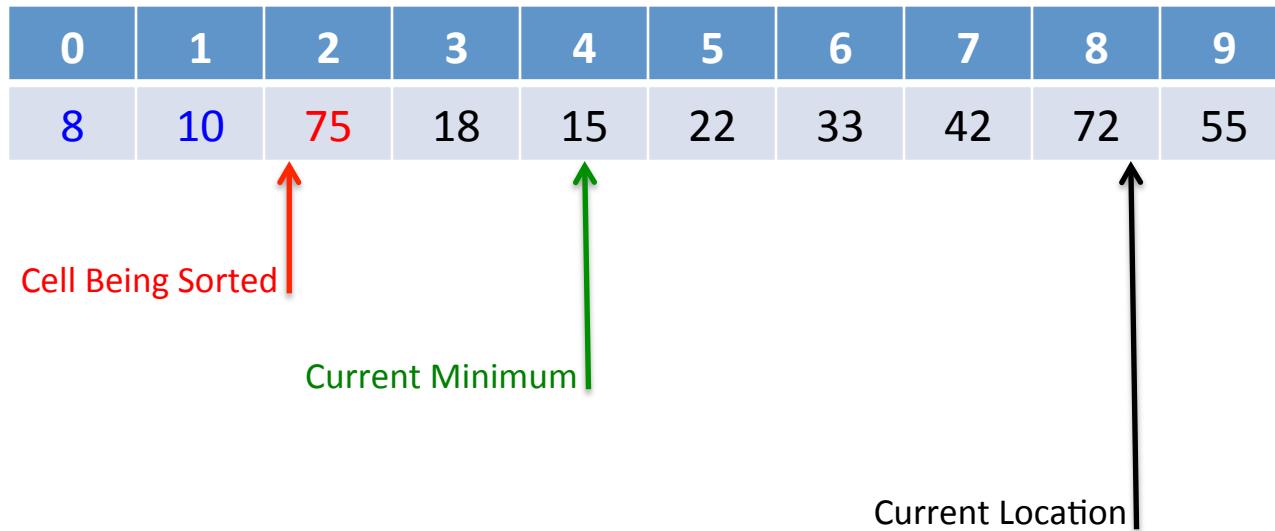
Selection Sort



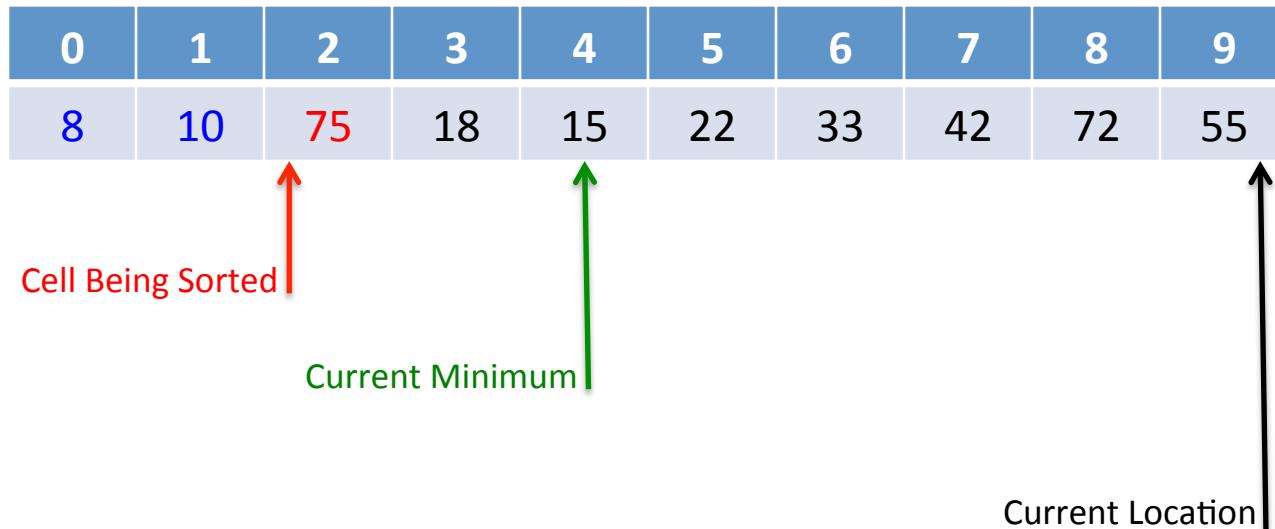
Selection Sort



Selection Sort



Selection Sort



Selection Sort

0	1	2	3	4	5	6	7	8	9
8	10	75	18	15	22	33	42	72	55

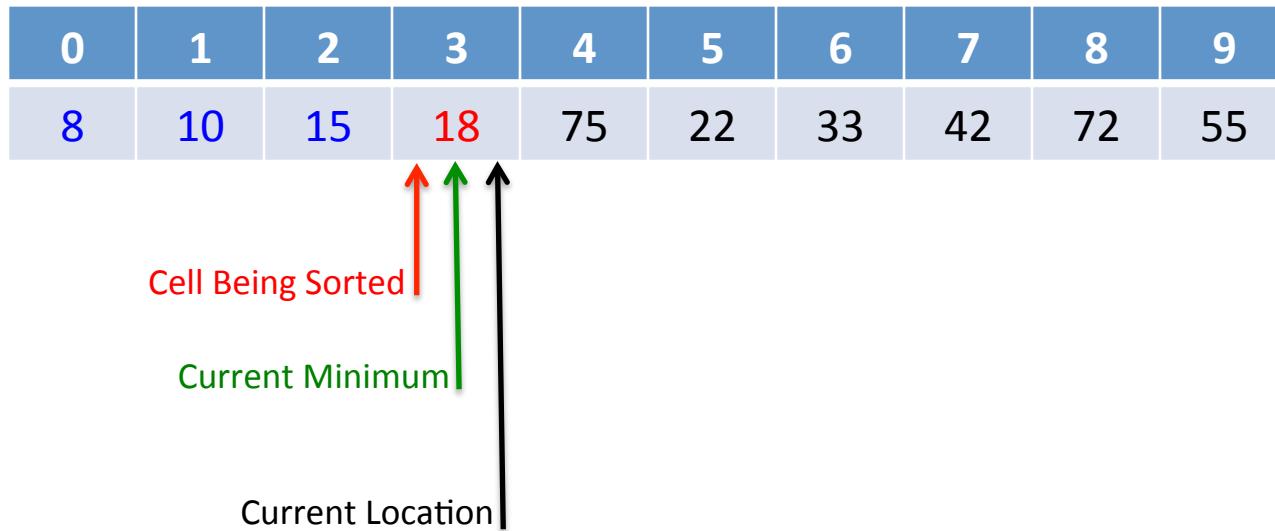
Cell Being Sorted

Current Minimum

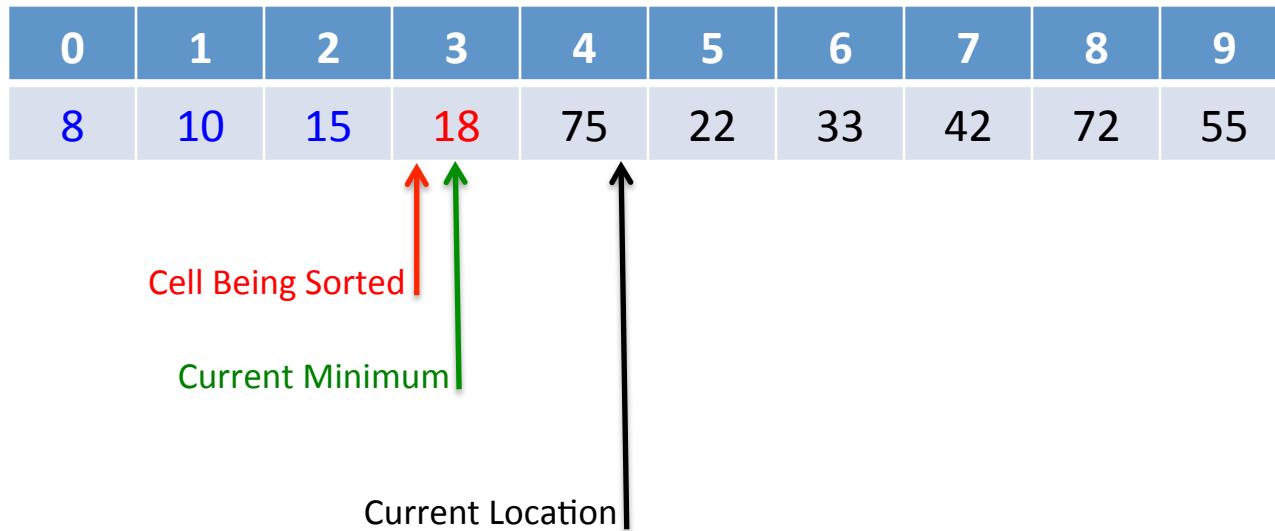
Selection Sort

0	1	2	3	4	5	6	7	8	9
8	10	15	18	75	22	33	42	72	55

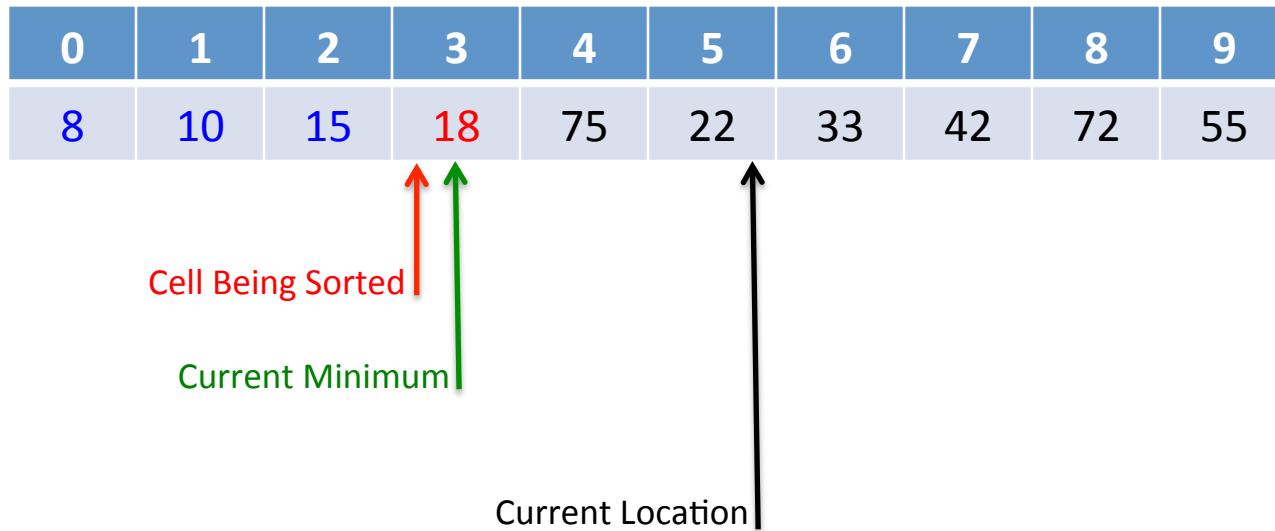
Selection Sort



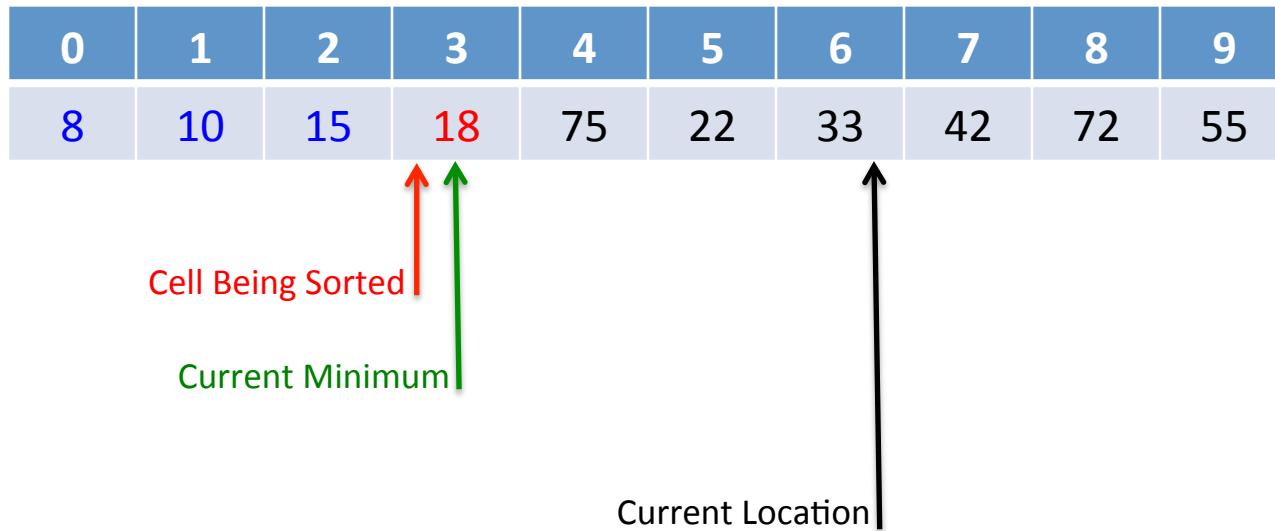
Selection Sort



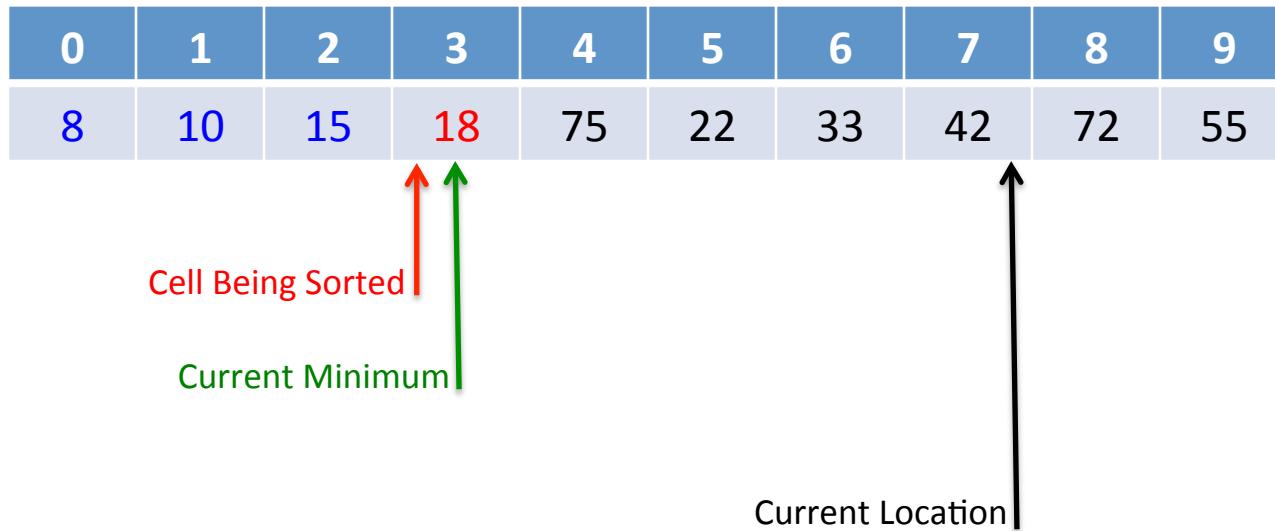
Selection Sort



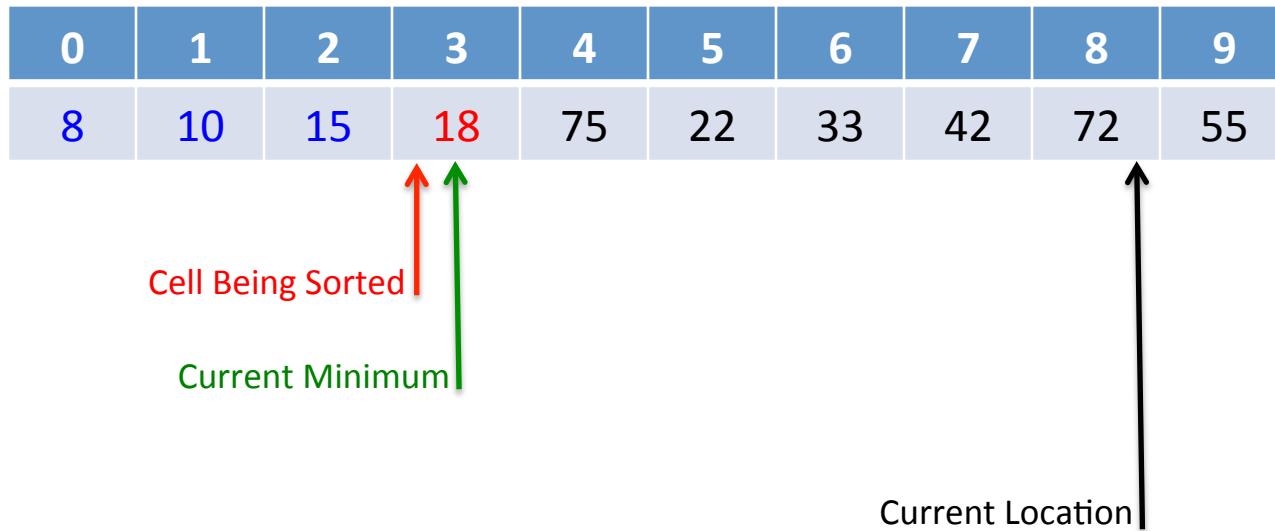
Selection Sort



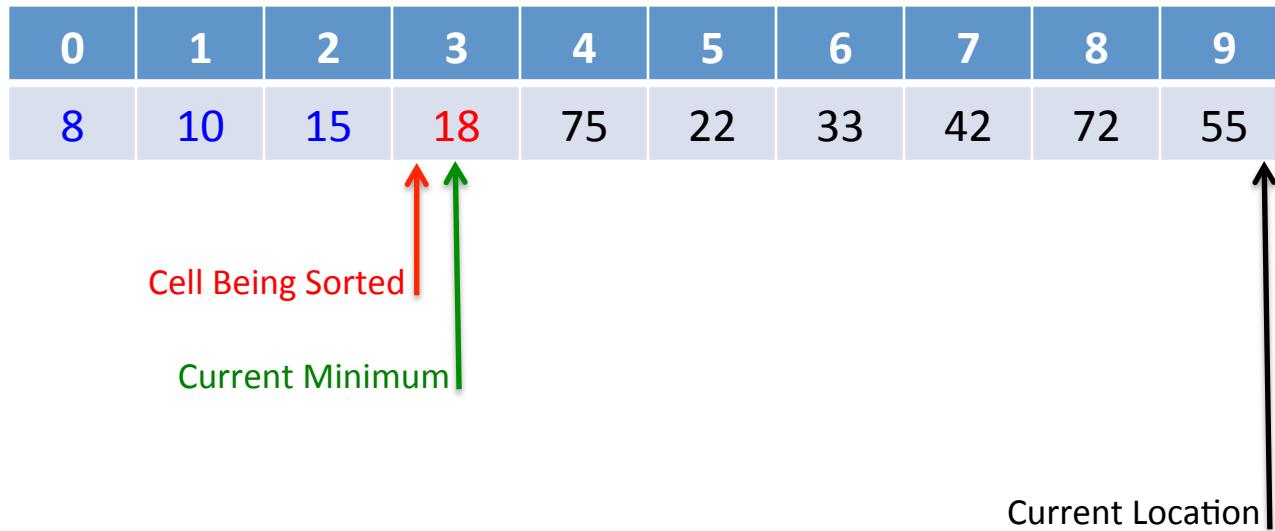
Selection Sort



Selection Sort



Selection Sort



Selection Sort

0	1	2	3	4	5	6	7	8	9
8	10	15	18	75	22	33	42	72	55

Cell Being Sorted

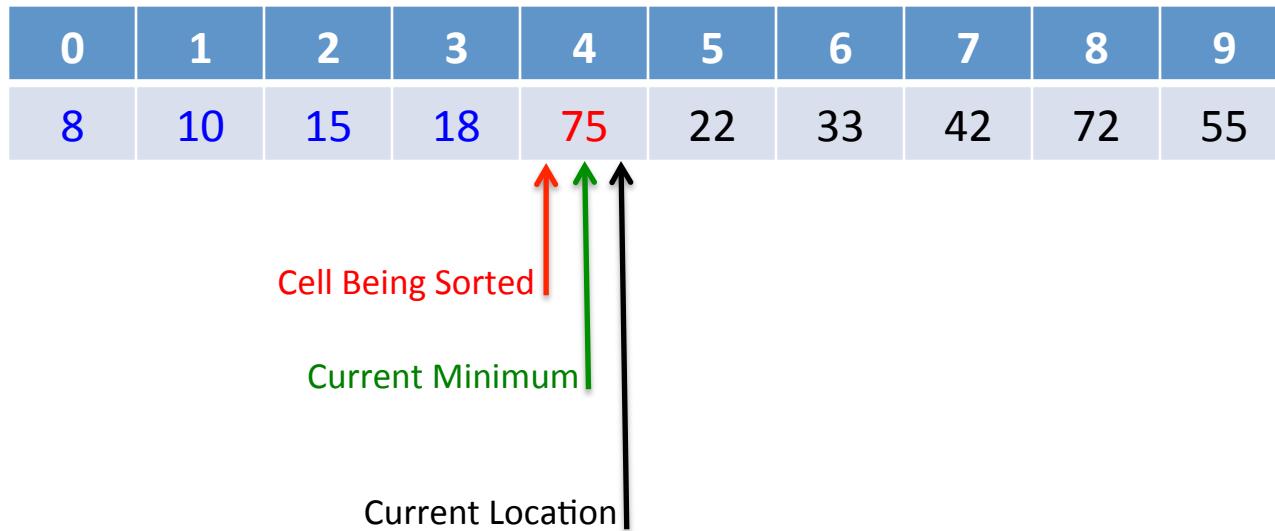
Current Minimum



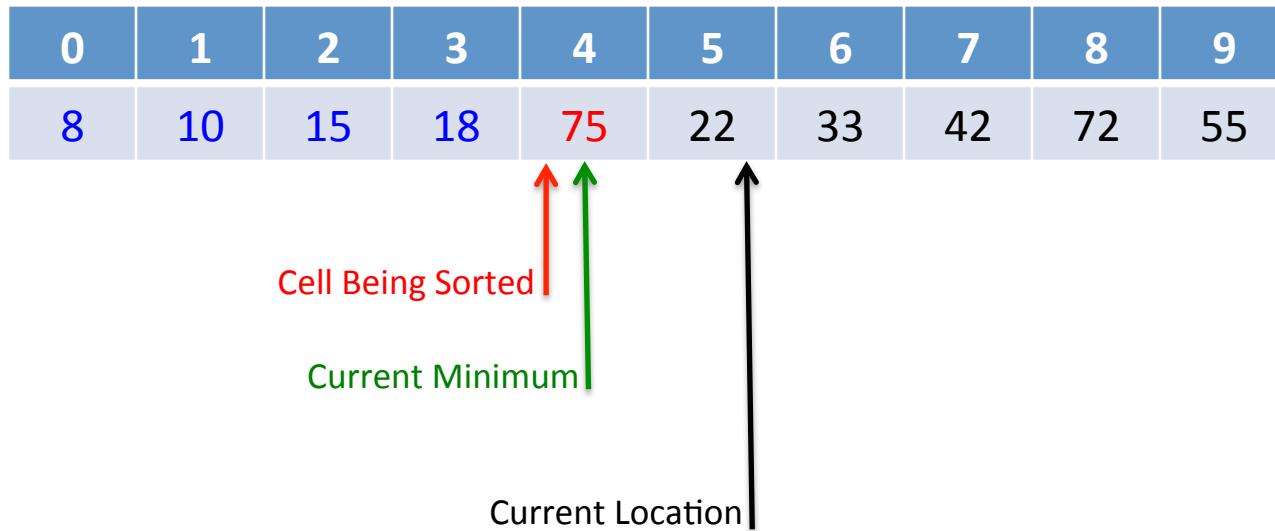
Selection Sort

0	1	2	3	4	5	6	7	8	9
8	10	15	18	75	22	33	42	72	55

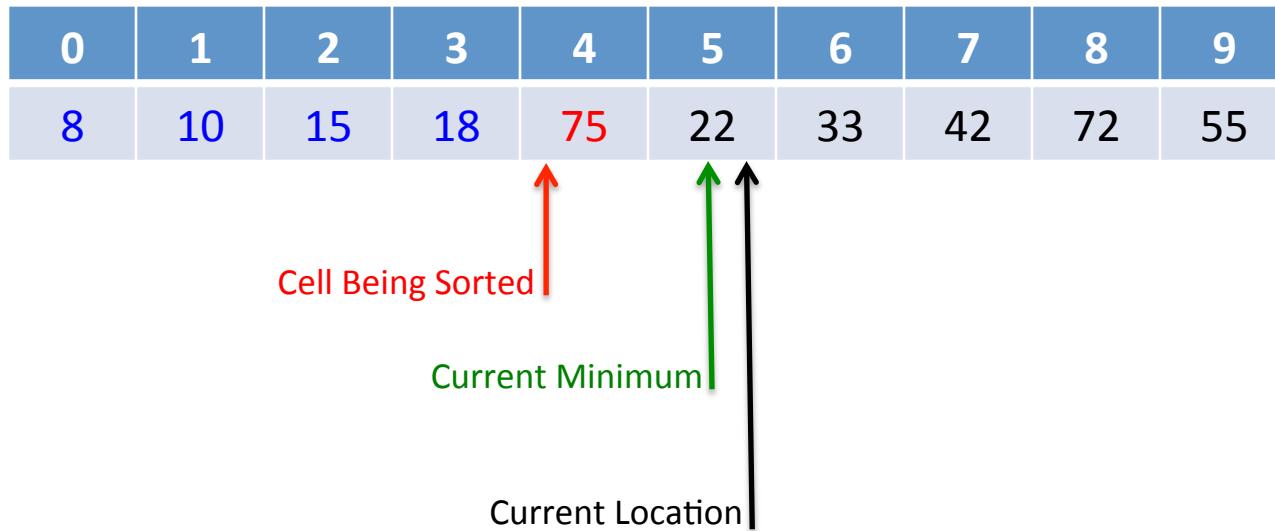
Selection Sort



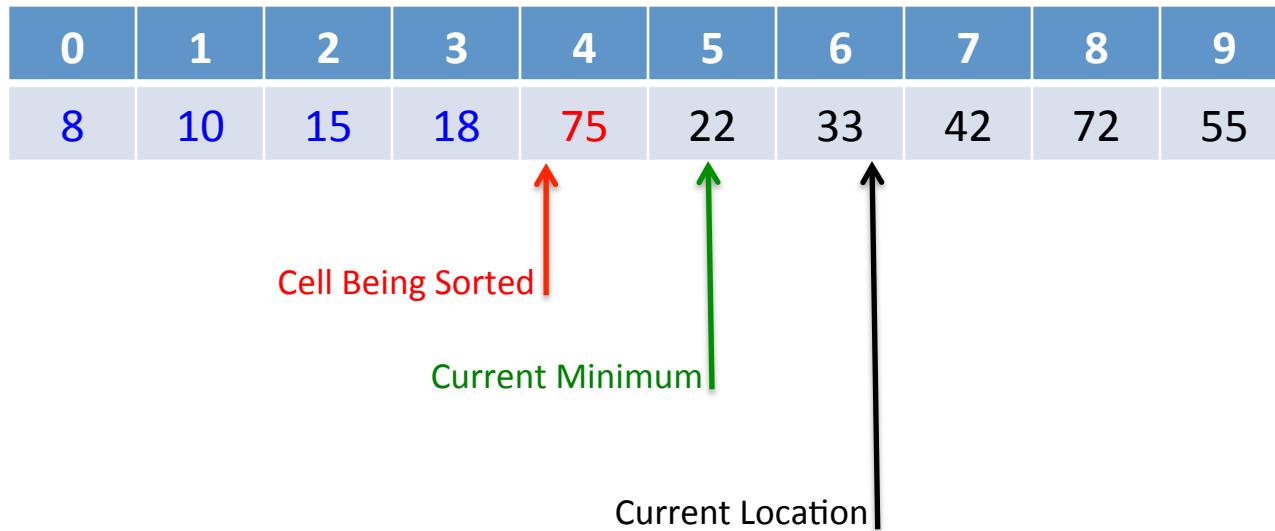
Selection Sort



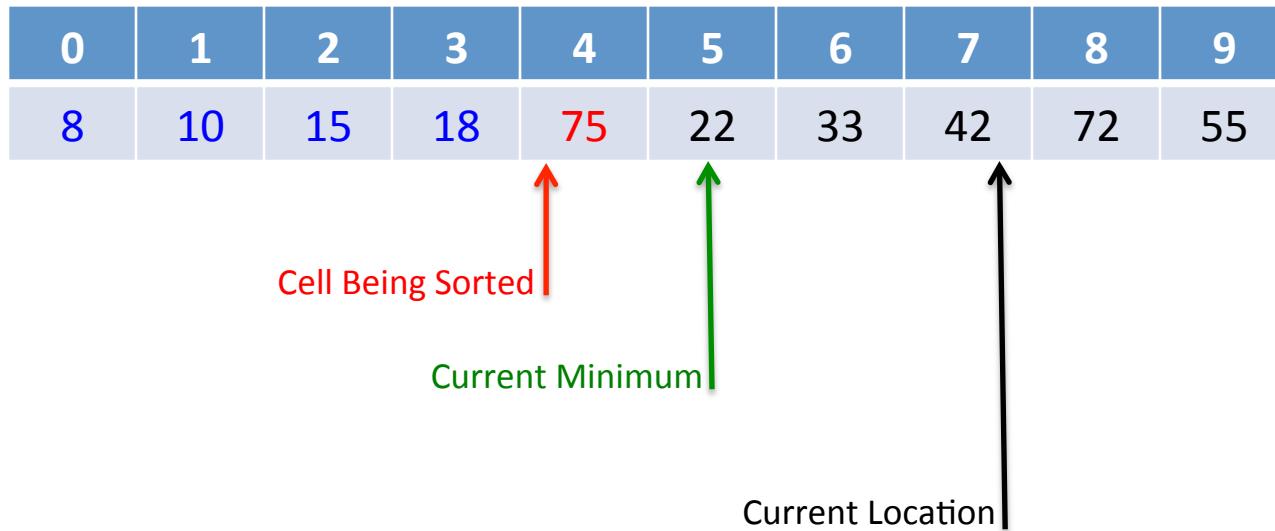
Selection Sort



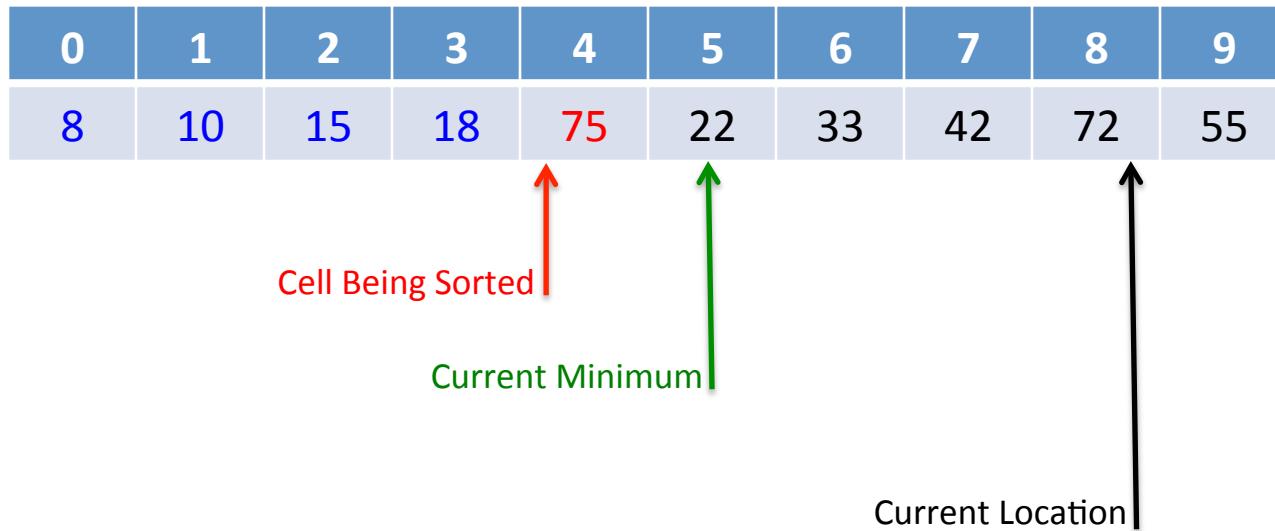
Selection Sort



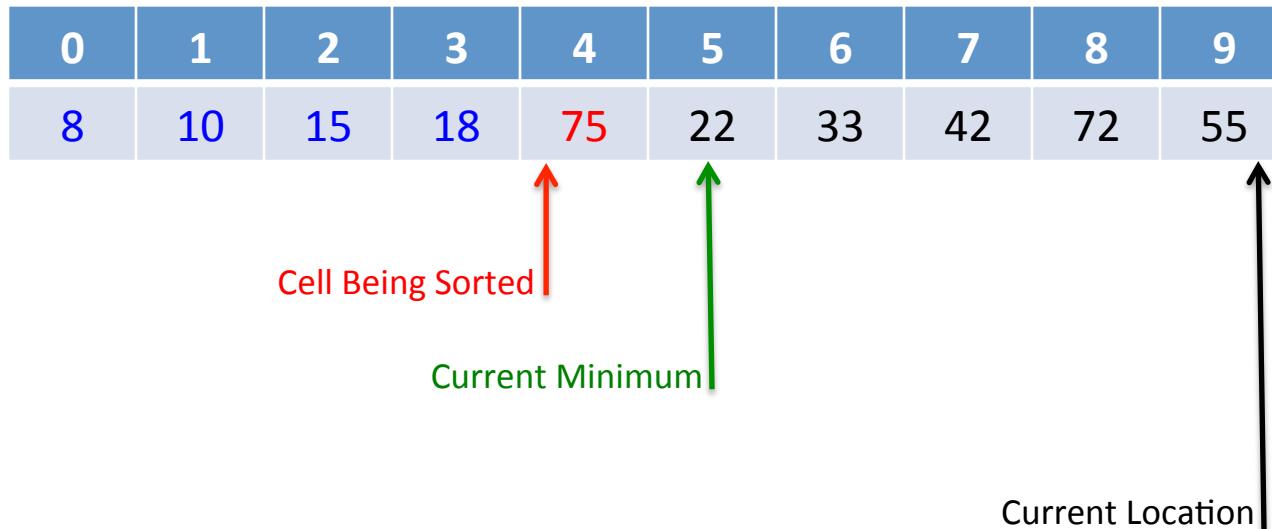
Selection Sort



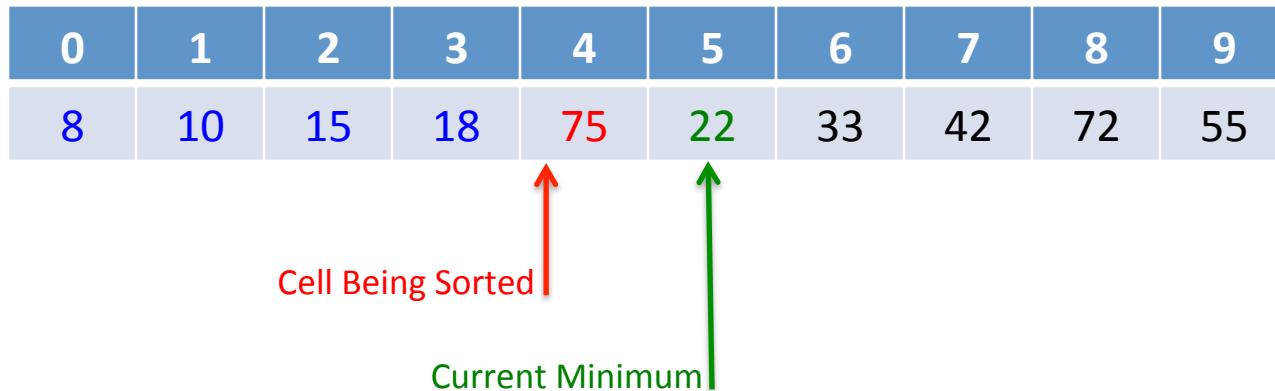
Selection Sort



Selection Sort



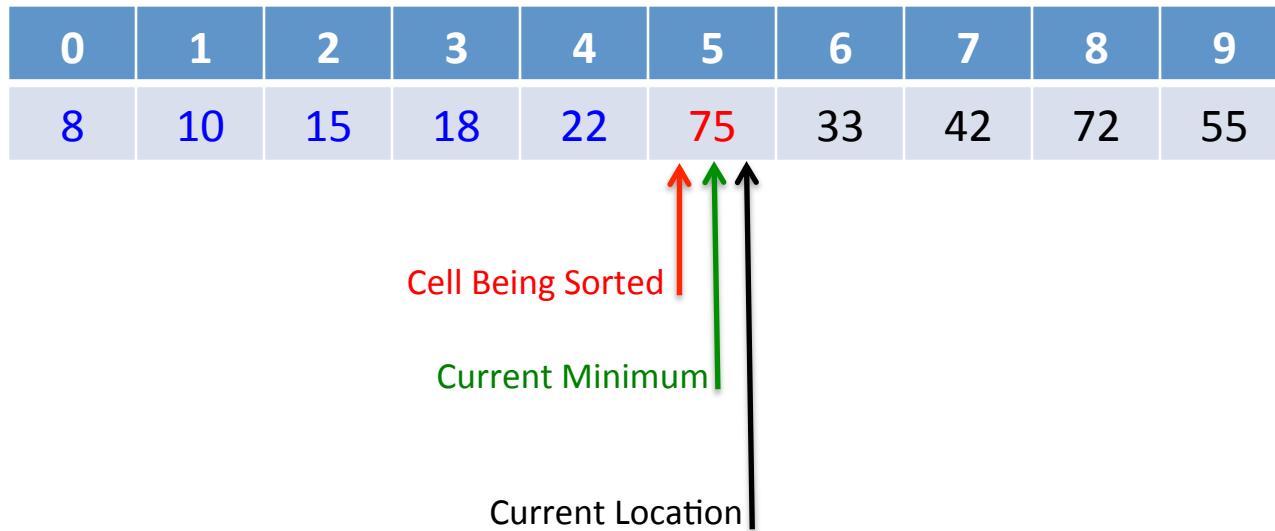
Selection Sort



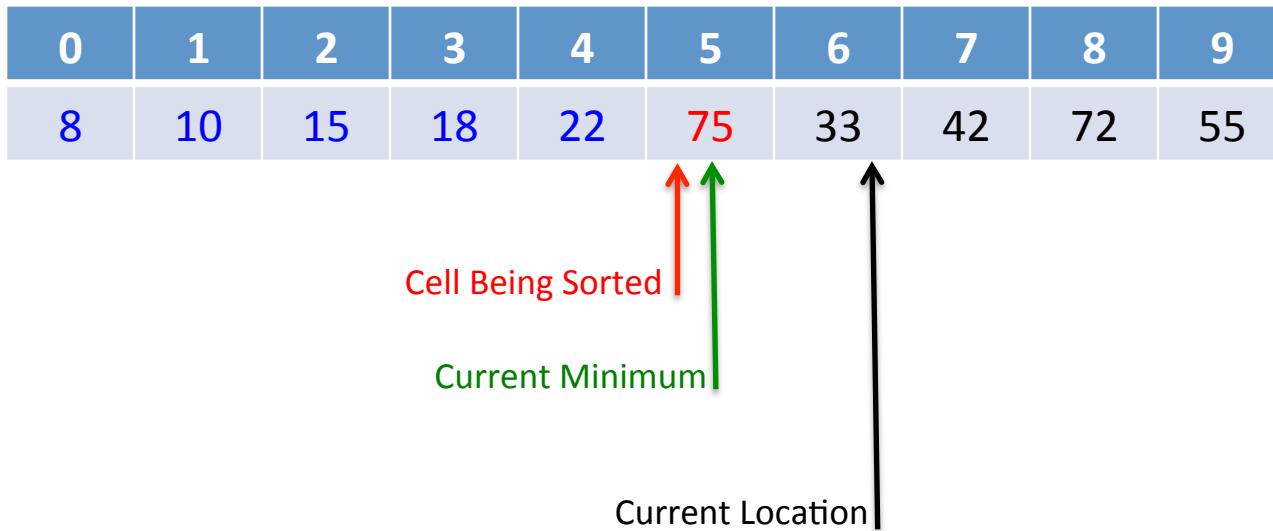
Selection Sort

0	1	2	3	4	5	6	7	8	9
8	10	15	18	22	75	33	42	72	55

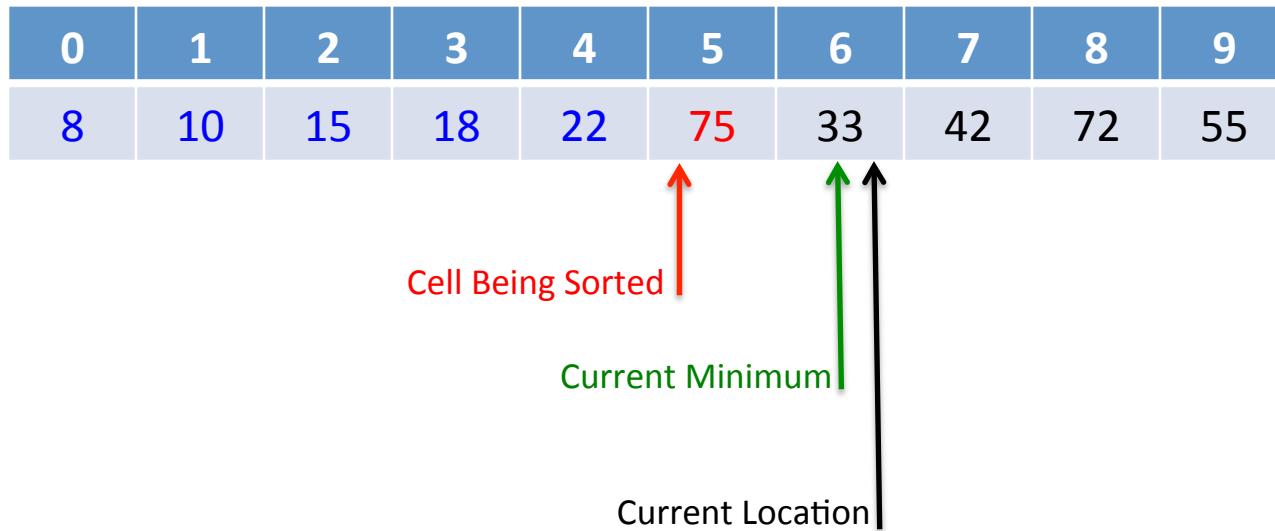
Selection Sort



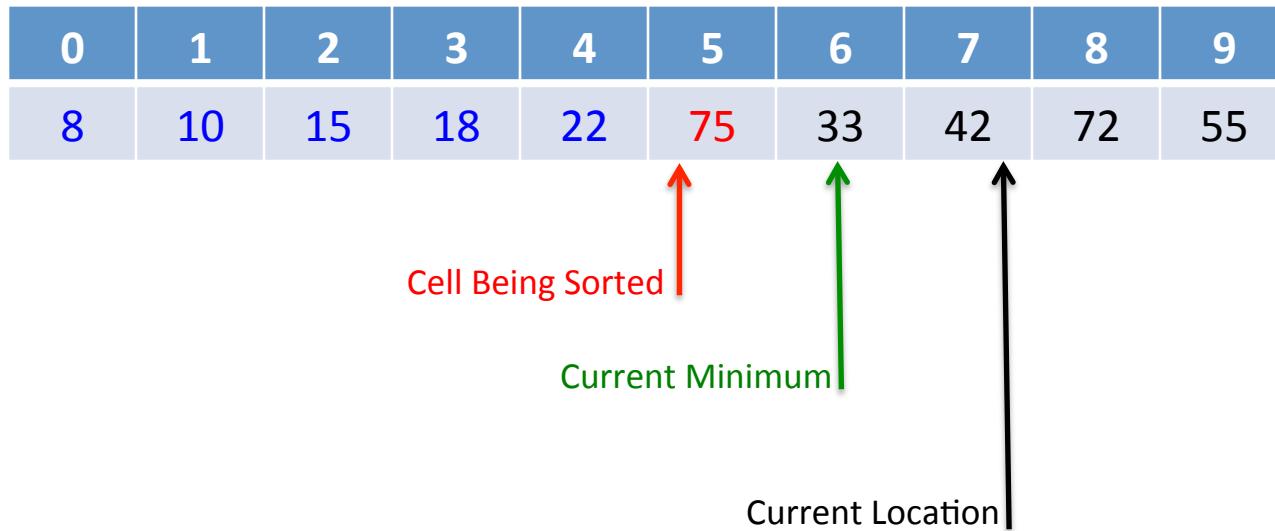
Selection Sort



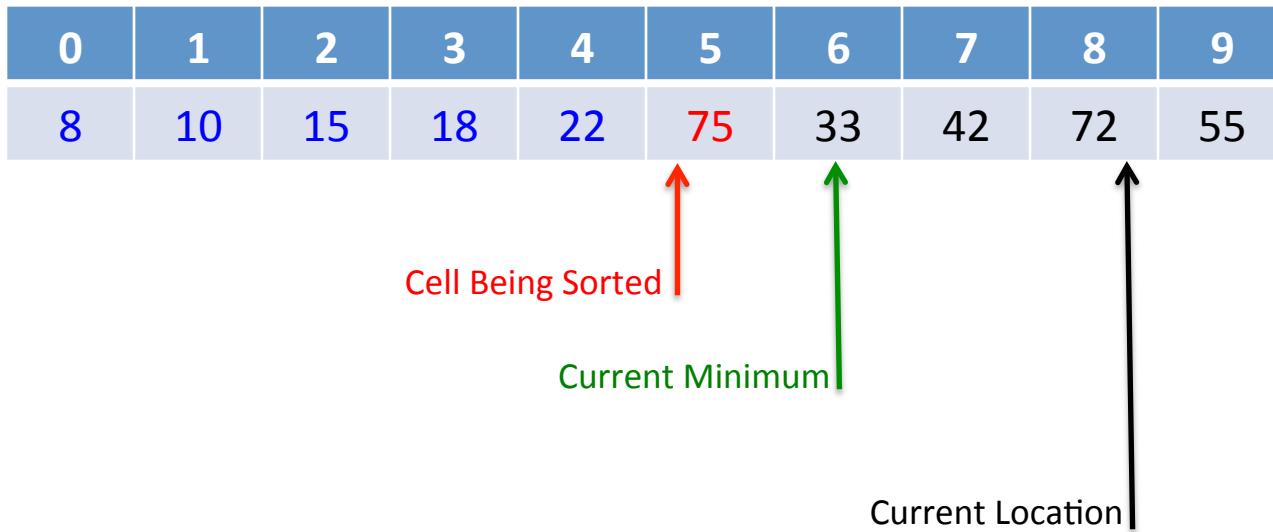
Selection Sort



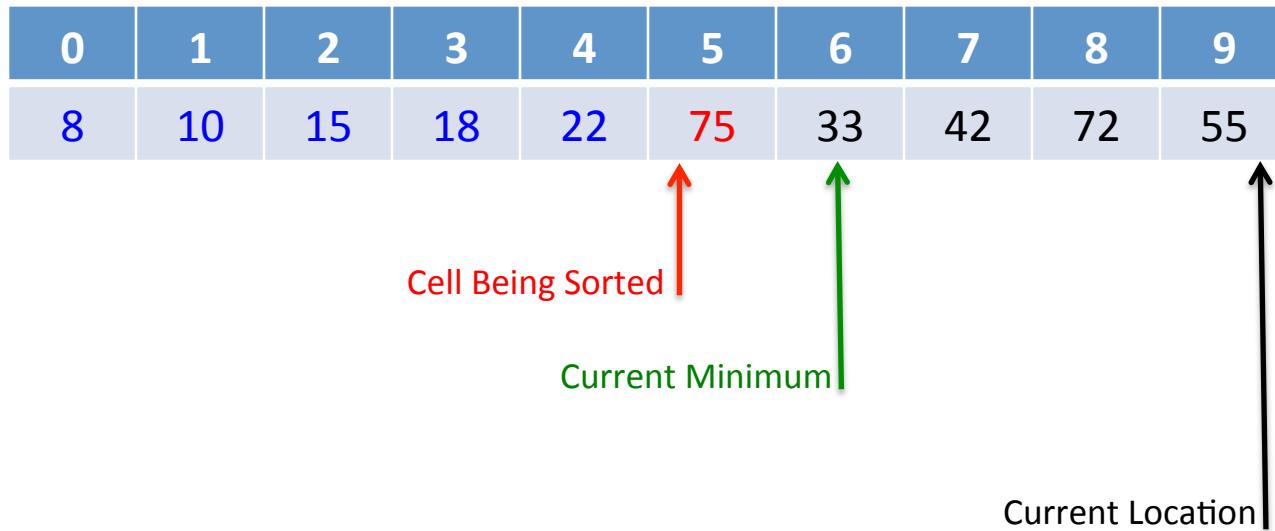
Selection Sort



Selection Sort



Selection Sort



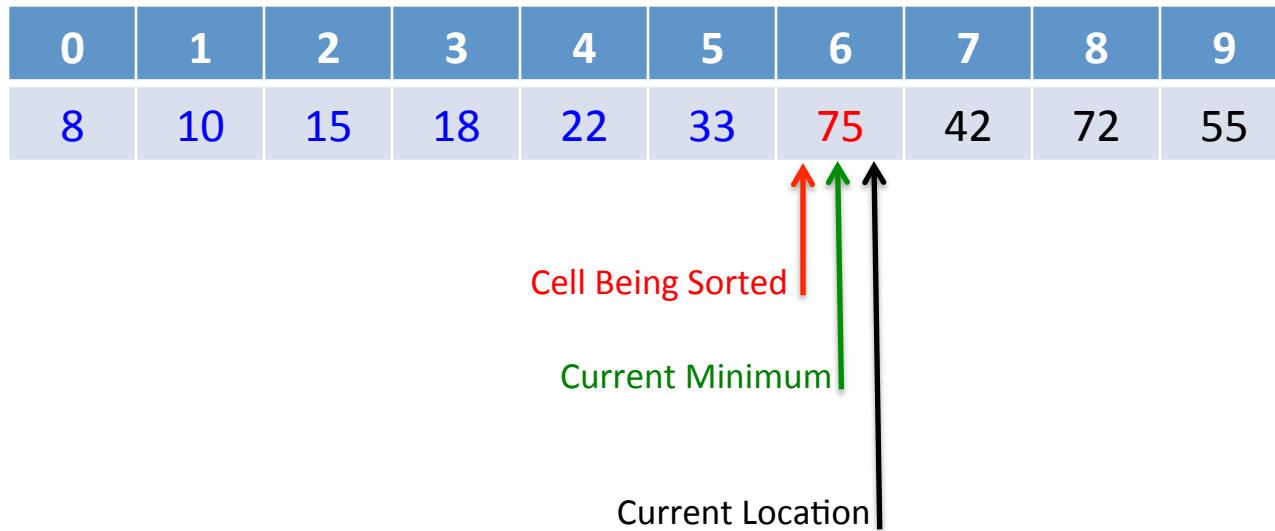
Selection Sort



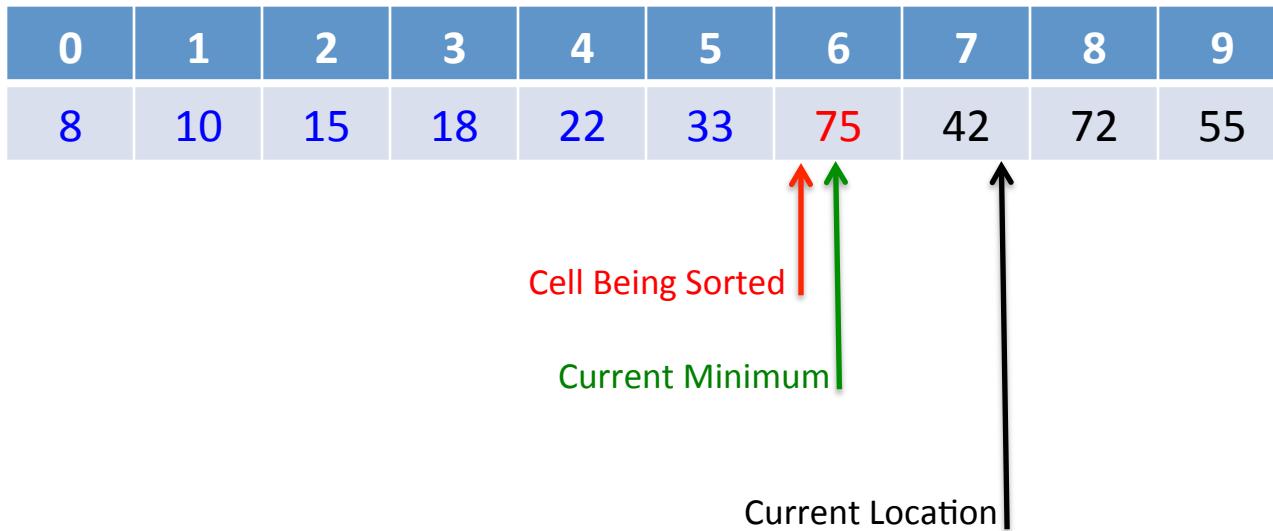
Selection Sort

0	1	2	3	4	5	6	7	8	9
8	10	15	18	22	33	75	42	72	55

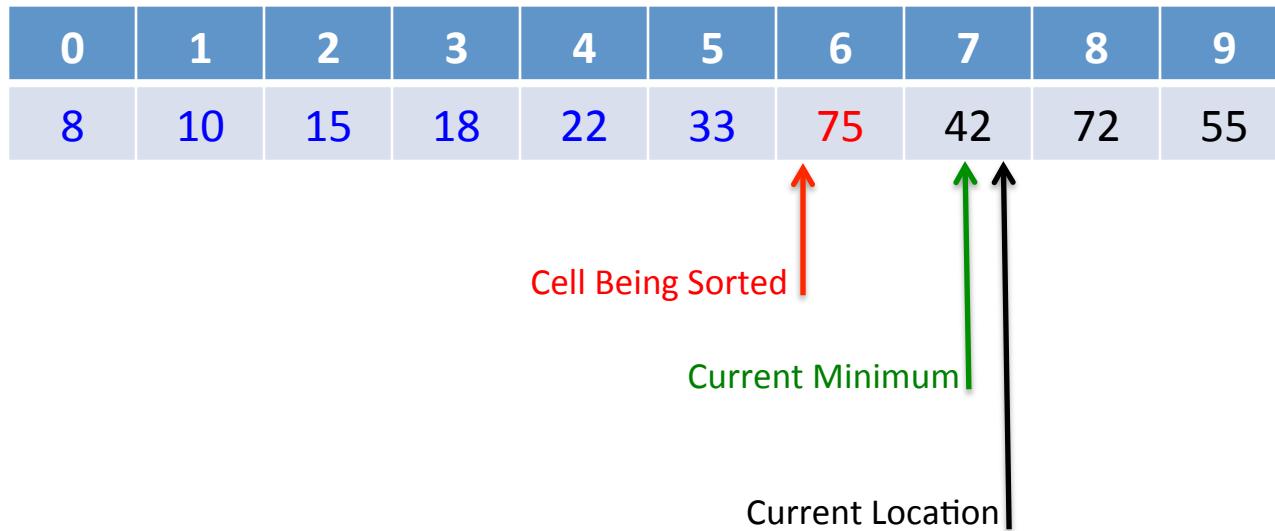
Selection Sort



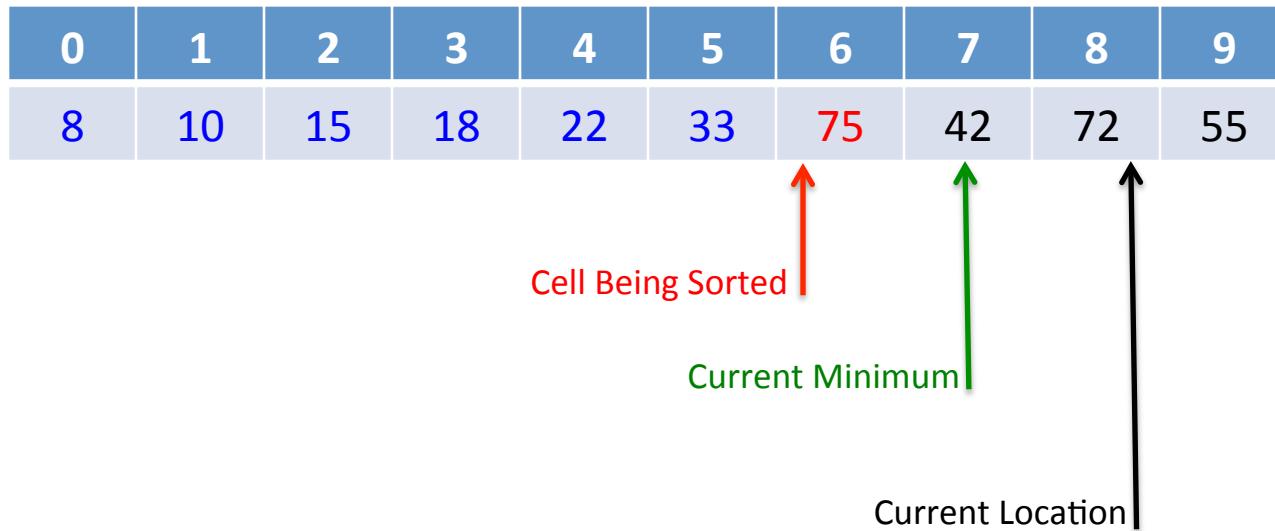
Selection Sort



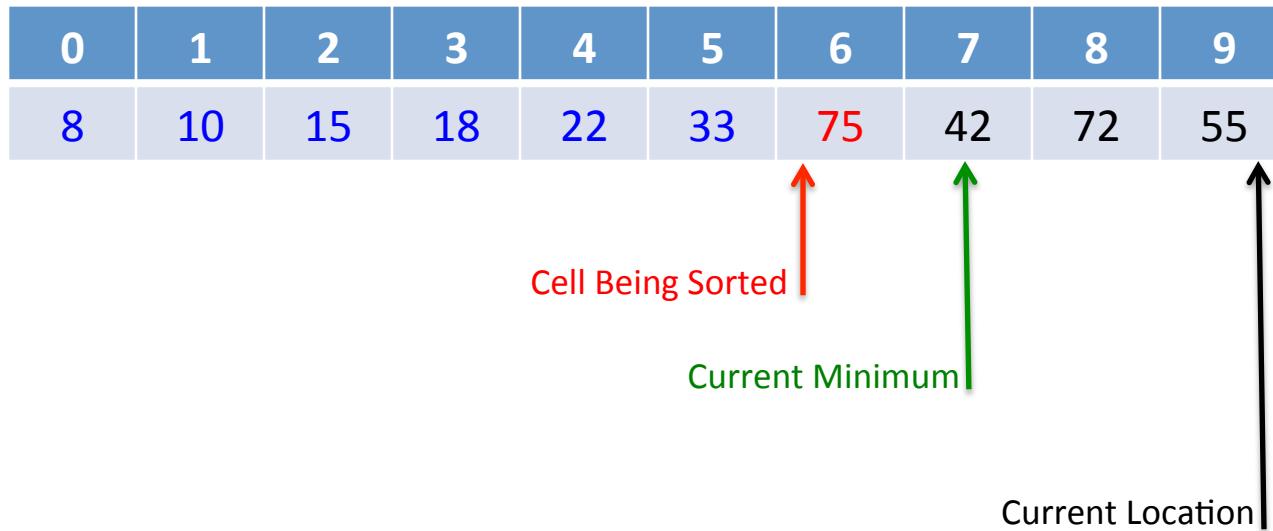
Selection Sort



Selection Sort



Selection Sort



Selection Sort

0	1	2	3	4	5	6	7	8	9
8	10	15	18	22	33	75	42	72	55

Cell Being Sorted

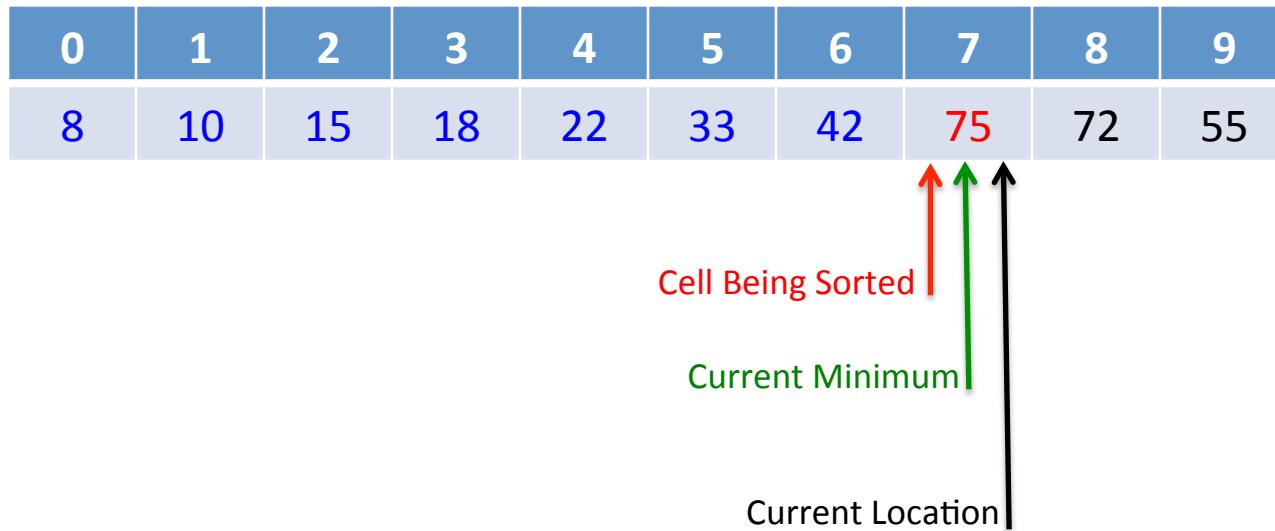
Current Minimum

The diagram illustrates the state of an array during a selection sort iteration. The array has 10 slots, indexed from 0 to 9. Slots 0 through 6 contain blue numbers: 8, 10, 15, 18, 22, 33, and 75. Slots 7, 8, and 9 are shaded grey. Within these grey slots, slot 7 contains a red number, 75, and slot 8 contains a green number, 42. A red arrow points to the red 75 with the label "Cell Being Sorted". A green arrow points to the green 42 with the label "Current Minimum". This visualizes the step where the algorithm is currently comparing the value at index 7 against the values at indices 8 and 9 to find the minimum value in that range.

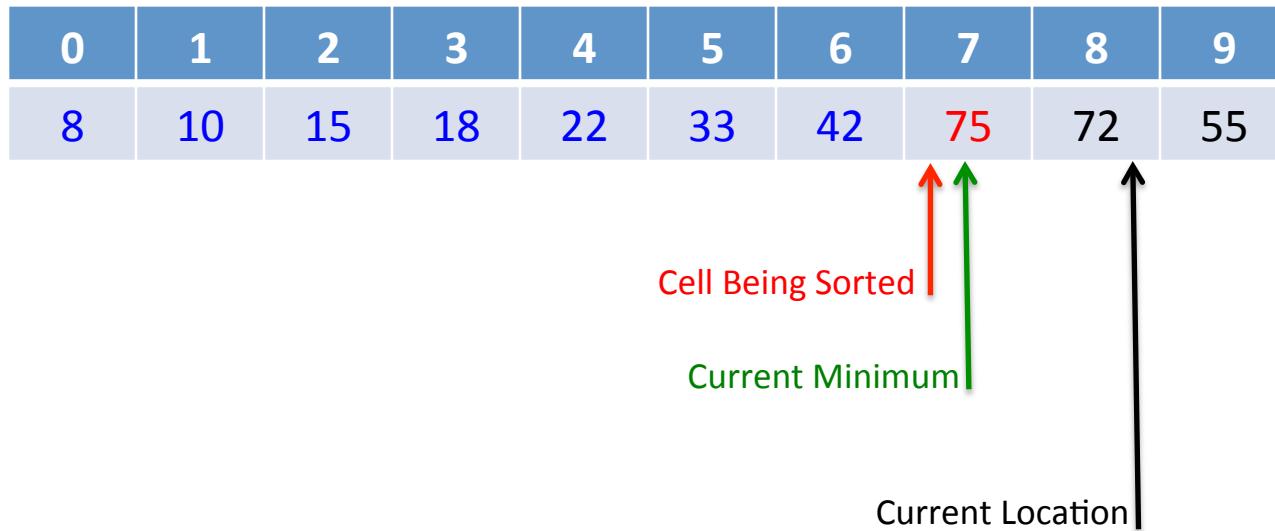
Selection Sort

0	1	2	3	4	5	6	7	8	9
8	10	15	18	22	33	42	75	72	55

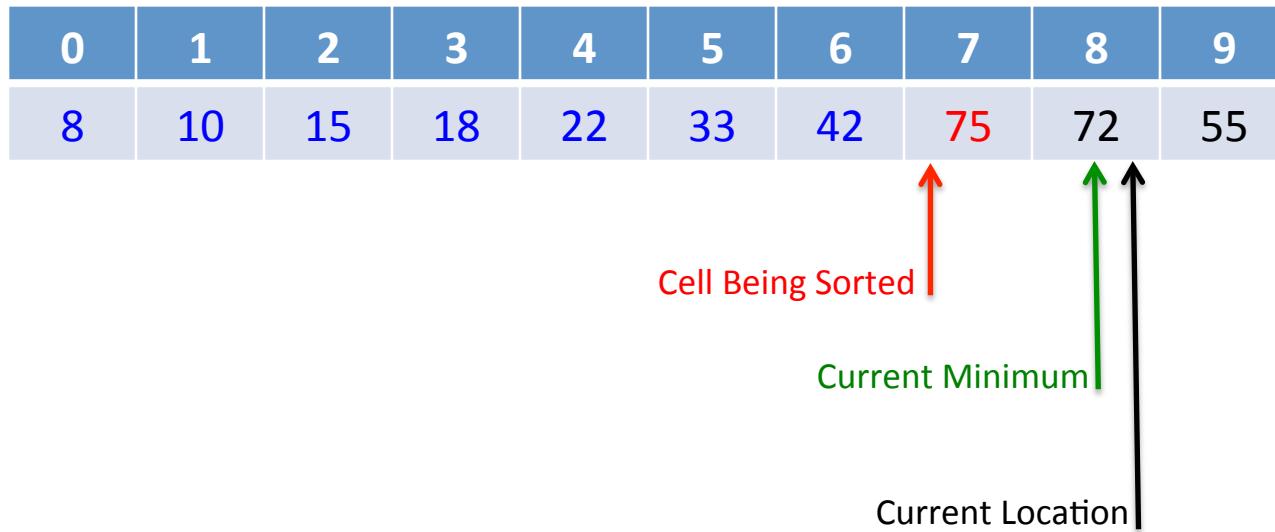
Selection Sort



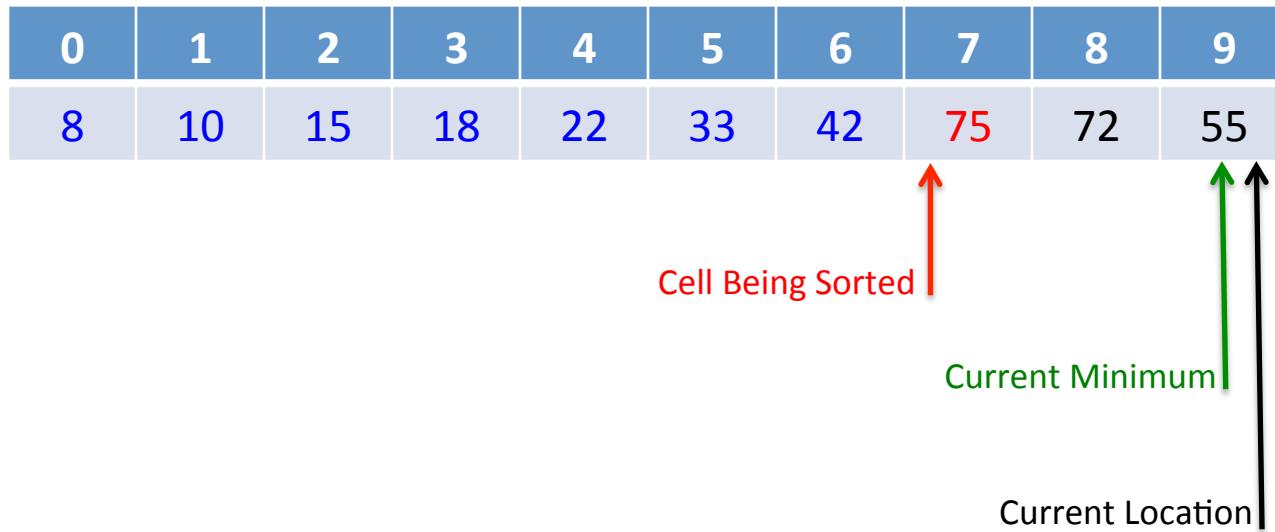
Selection Sort



Selection Sort



Selection Sort

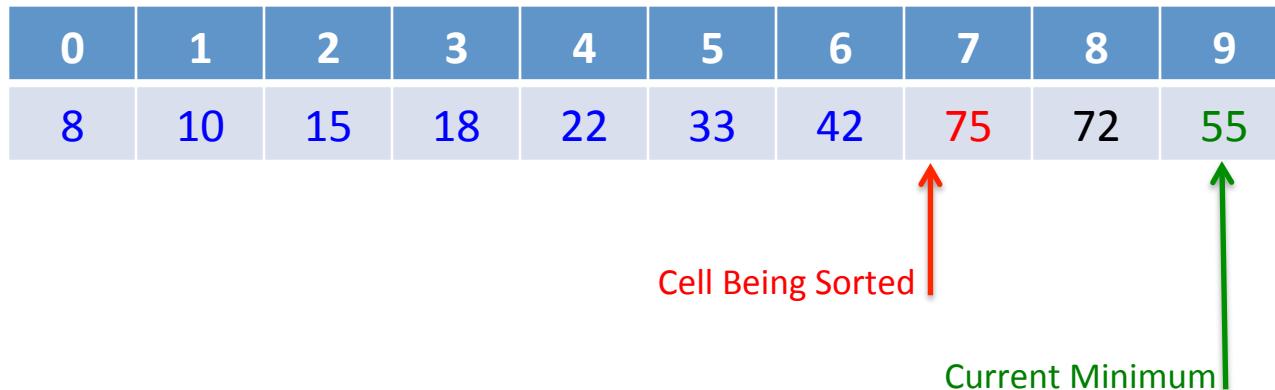


Selection Sort

0	1	2	3	4	5	6	7	8	9
8	10	15	18	22	33	42	75	72	55

Cell Being Sorted

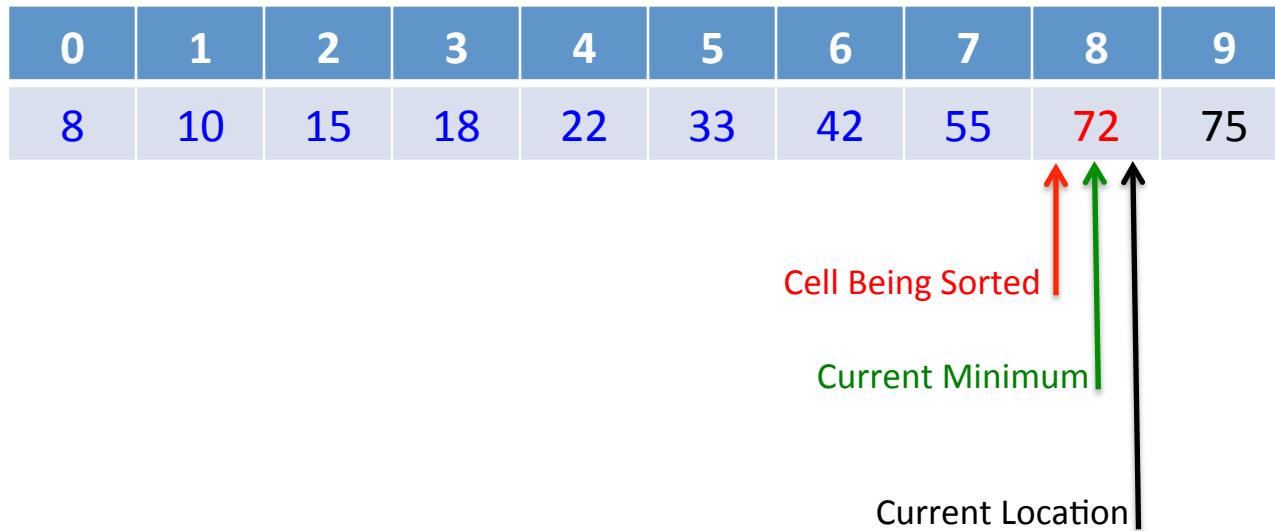
Current Minimum



Selection Sort

0	1	2	3	4	5	6	7	8	9
8	10	15	18	22	33	42	55	72	75

Selection Sort



Selection Sort

0	1	2	3	4	5	6	7	8	9
8	10	15	18	22	33	42	55	72	75

Diagram illustrating the state of an array during a selection sort iteration. The array elements are indexed from 0 to 9. The current element being examined is at index 8, containing the value 72, which is highlighted in red. The text "Cell Being Sorted" is positioned above this element with a red double-headed arrow. The current minimum value found so far is 42, located at index 5, which is highlighted in green. The text "Current Minimum" is positioned above this element with a green double-headed arrow. The current location of the search for the minimum value is at index 9, indicated by a black vertical arrow pointing upwards.

Selection Sort

0	1	2	3	4	5	6	7	8	9
8	10	15	18	22	33	42	55	72	75

Cell Being Sorted

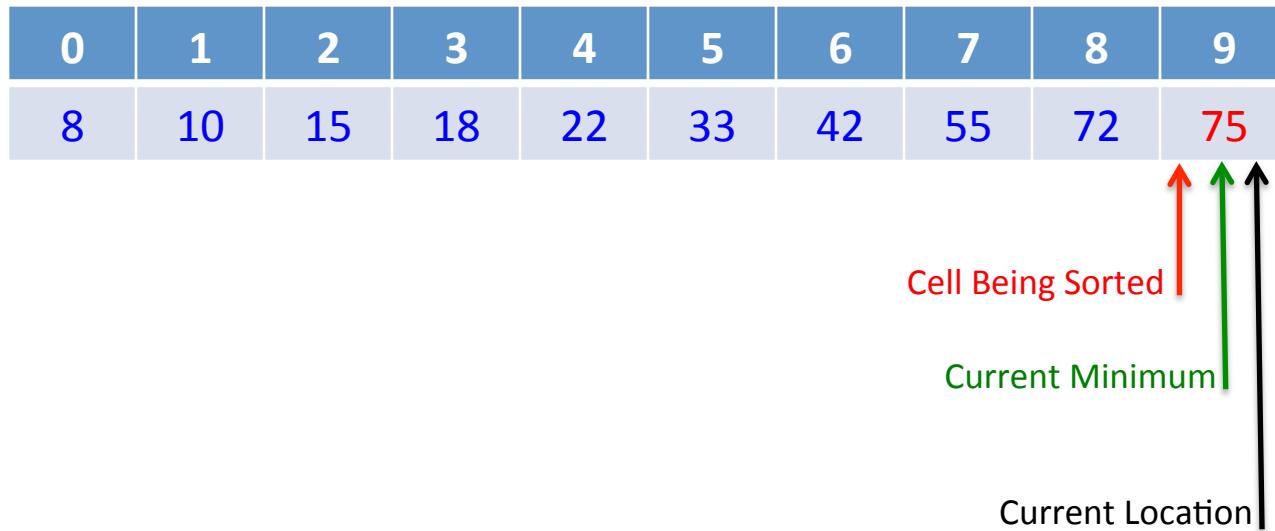
Current Minimum



Selection Sort

0	1	2	3	4	5	6	7	8	9
8	10	15	18	22	33	42	55	72	75

Selection Sort

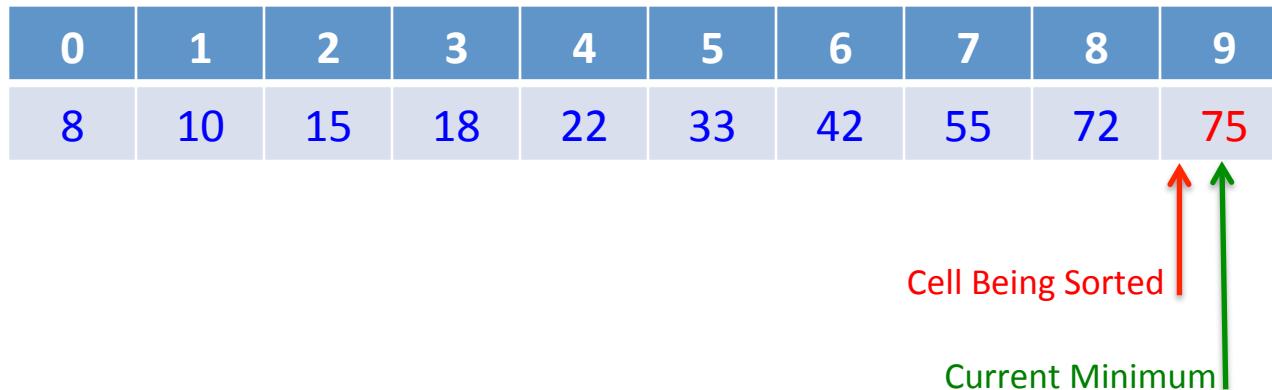


Selection Sort

0	1	2	3	4	5	6	7	8	9
8	10	15	18	22	33	42	55	72	75

Cell Being Sorted

Current Minimum



Selection Sort

0	1	2	3	4	5	6	7	8	9
8	10	15	18	22	33	42	55	72	75

Selection Sort

0	1	2	3	4	5	6	7	8	9
8	10	15	18	22	33	42	55	72	75

All Done!