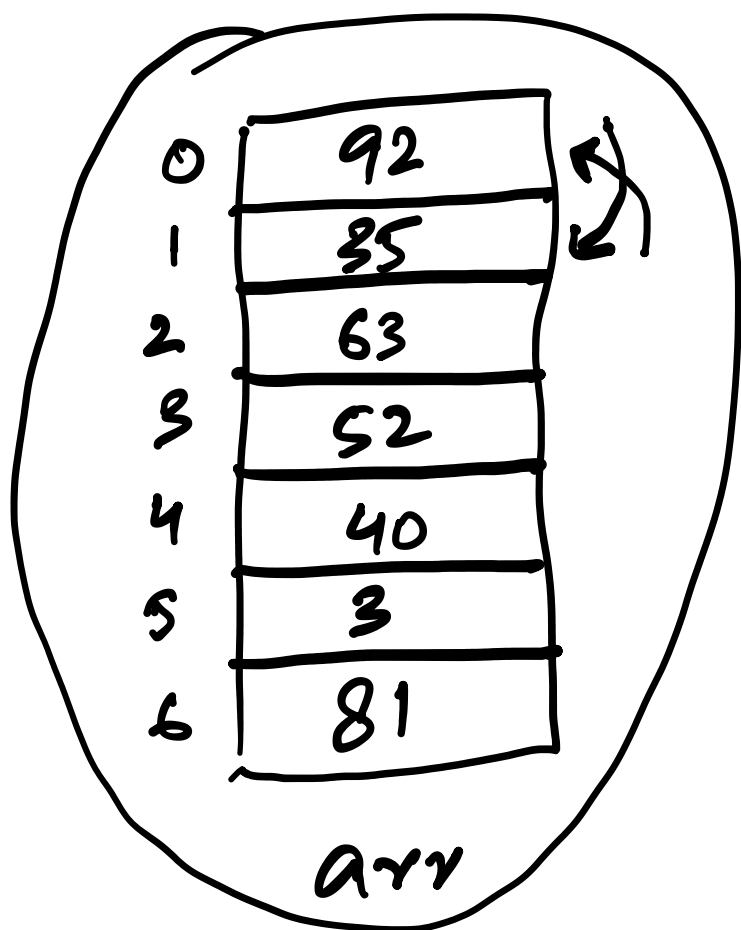


# Bubble Sort

Sunday, 13 December 2020

5:39 PM



	$a=b=9$	$a=b=5$	
$a=5$	$a=b$	$b=a$	$x=a$ 5
$b=9$	$b=a$	$a=b$	$a=b$ 9
	X	X	$b=x$ 5
			Bubble
			✓

0	92	35	35
1	35	<del>92</del> 63	<del>63</del> 52
2	63	<del>92</del> 52	52 <del>63</del> 40
3	52	<del>92</del> 40	40 <del>63</del> 3
4	40	<del>92</del> 3	3 63
5	3	<del>92</del> 81	81
6	81	92	92

35	35	35 3
52 40	<del>40</del> 3	3 35
40 <del>52</del> 3	3 40	40
3 52	52	52
63	63	63
81	81	81
92	92	92

3

35

40

52

63

81

92

For  $j \leftarrow (UB-1)$  to 0 Step -1

$isSorted \leftarrow True$

For  $i \leftarrow 0$  to  $j$

IF  $arr[i] > arr[i+1]$

THEN

$temp \leftarrow arr[i]$

$arr[i] \leftarrow arr[i+1]$

$arr[i+1] \leftarrow temp$

$isSorted \leftarrow False$

ENDIF

Next  $i$

IF  $isSorted = True$  THEN EXIT FOR

Next  $j$