

	col 0	col 1	col 2	col 3
row 0				
row 1				
row 2				S
row 3	Exit			

SearchForTheExit

Initialize a **Queue** to hold Squares as we search
Mark starting square as visited
Enqueue starting square on **Queue**
While **Queue** is not empty
 Dequeue square sq from **Queue**
 Mark sq as visited
 If sq is the Exit, we're done!
 For each of square's unvisited neighbors (S, W, N, E):
 Set neighbor's previous to sq
 Enqueue neighbor to **Queue**

	col 0	col 1	col 2	col 3
row 0				
row 1				
row 2				S
row 3	Exit			

SearchForTheExit

Initialize a **Stack** to hold Squares as we search
Mark starting square as visited
Push starting square on **Stack**
While **Stack** is not empty
 Pop square sq from **Stack**
 Mark sq as visited
 If sq is the Exit, we're done!
 For each of square's unvisited neighbors (S, W, N, E):
 Set neighbor's previous to sq
 Push neighbor to **Stack**

Abstract Data Types (In Java, Interfaces)

Data Structures (In Java, implementing classes)

<pre>class Sort1 { public static boolean isSorted1(int[] arr) { for(int i = 0; i < arr.length - 1; i += 1) { if(arr[i] > arr[i + 1]) { return false; } } return true; } }</pre>	<pre>class Sort2 { public static boolean isSorted2(int[] arr) { for(int i = 0; i < arr.length; i += 1) { for(int j = i + 1; j < arr.length; j += 1) { if(arr[i] > arr[j]) { return false; } } } return true; } }</pre>
<pre># isSorted1 in Python def is_sorted1(lst): for i in range(0, len(lst) - 1): if lst[i] > lst[i + 1]: return False return True</pre>	

