INSERTION-SORT(A)		Cost	Iterations
1	**for** j = 2 **to** $A.length$		
2	$key = A[j]$		
3	// Insert A[j] into the sorted sequence A[1..j-1]		
4	$i = j - 1$		
5	**while** $i > 0$ and $A[i] > key$		
6	$A[i+1] = A[i]$		
7	$i = i - 1$		
8	$A[i+1] = key$		