Review 1

1. Fill in the blank entries when the numbers are sorted by insertion sort in non-decreasing order.

7	4	3	6	8	1	2
7	4	3	6	8	1	2
4	7					

2. Fill in the blanks with proper number of iterations.

INSERTION-SORT(A)	cost	number of iterations
for $j = 2$ to n	c_1	
key = A[j]	<i>C</i> ₂	
i = j - 1	<i>C</i> 4	
while $i > 0$ and $A[i] > key$	<i>C</i> ₅	
A[i + 1] = A[i]	<i>C</i> 6	
i = i - 1	<i>C</i> 7	
A[i + 1] = key	C 8	

 t_j : The number of executions of the while loop test for j.