INSERTION-SORT(A, n)	cost	times
1 **for** $i = 2$ **to** n	c_1	n
2 $key = A[i]$	c_2	$n - 1$
3 // Insert $A[i]$ into the sorted subarray $A[1 : i - 1]$.	0	$n - 1$
4 $j = i - 1$	c_4	$n - 1$
5 **while** $j > 0$ and $A[j] > key$	c_5	$\sum_{i=2}^{n} t_i$
6 $A[j + 1] = A[j]$	c_6	$\sum_{i=2}^{n} (t_i - 1)$
7 $j = j - 1$	c_7	$\sum_{i=2}^{n} (t_i - 1)$
8 $A[j + 1] = key$	c_8	$n - 1$