

```
1 public static void InsertionSort(int[] A) {
2     for (int i = 1; i < A.length; i++) {
3         int key = A[i];
4         // 将 A[i] 插入到已经排好序的子数组 A[0:i-1]
5         int j = i - 1;
6         while (j > -1 && A[j] > key) {
7             A[j + 1] = A[j];
8             j = j - 1;
9         }
10        A[j + 1] = key;
11    }
12 }
```