**378. Kth Smallest Element in a Sorted Matrix**

Medium

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Given a *n* x *n* matrix where each of the rows and columns are sorted in ascending order, find the kth smallest element in the matrix.

Note that it is the kth smallest element in the sorted order, not the kth distinct element.

**Example:**

matrix = [

[ 1, 5, 9],

[10, 11, 13],

[12, 13, 15]

],

k = 8,

return 13.

**Note:**  
You may assume k is always valid, 1 ≤ k ≤ n2.

1. Priority Queue

虽然时间复杂度，空间复杂度都比较高，但不失为一种很容易想到的方法

