841. Keys and Rooms

Medium

5.5K

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Companies

There are n rooms labeled from 0 to n - 1 and all the rooms are locked except for room 0. Your goal is to visit all the rooms. However, you cannot enter a locked room without having its key.

When you visit a room, you may find a set of **distinct keys** in it. Each key has a number on it, denoting which room it unlocks, and you can take all of them with you to unlock the other rooms.

Given an array rooms where rooms[i] is the set of keys that you can obtain if you visited room i, return true *if you can visit****all****the rooms, or* false *otherwise*.

**Example 1:**

**Input:** rooms = [[1],[2],[3],[]]

**Output:** true

**Explanation:**

We visit room 0 and pick up key 1.

We then visit room 1 and pick up key 2.

We then visit room 2 and pick up key 3.

We then visit room 3.

Since we were able to visit every room, we return true.

**Example 2:**

**Input:** rooms = [[1,3],[3,0,1],[2],[0]]

**Output:** false

**Explanation:** We can not enter room number 2 since the only key that unlocks it is in that room.

**Constraints:**

* n == rooms.length
* 2 <= n <= 1000
* 0 <= rooms[i].length <= 1000
* 1 <= sum(rooms[i].length) <= 3000
* 0 <= rooms[i][j] < n
* All the values of rooms[i] are **unique**.