



5941. Find All People With Secret

My Submissions (/contest/weekly-contest-269/problems/find-all-people-with-secret/submissions/)

Back to Contest (/contest/weekly-contest-269/)

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You are given an integer n indicating there are n people numbered from 0 to n-1. You are also given a 0indexed 2D integer array meetings where meetings[i] = $[x_i, y_i, time_i]$ indicates that person x_i and person y_i have a meeting at time_i. A person may attend multiple meetings at the same time. Finally, you are given an integer firstPerson.

Person 0 has a secret and initially shares the secret with a person firstPerson at time 0. This secret is then shared every time a meeting takes place with a person that has the secret. More formally, for every meeting, if a person x_i has the secret at time, then they will share the secret with person y_i , and vice versa.

The secrets are shared instantaneously. That is, a person may receive the secret and share it with people in other meetings within the same time frame.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Hard

Return a list of all the people that have the secret after all the meetings have taken place. You may return the answer in any order.

Example 1:

```
Input: n = 6, meetings = [[1,2,5],[2,3,8],[1,5,10]], firstPerson = 1
Output: [0,1,2,3,5]
Explanation:
At time 0, person 0 shares the secret with person 1.
At time 5, person 1 shares the secret with person 2.
At time 8, person 2 shares the secret with person 3.
At time 10, person 1 shares the secret with person 5.
Thus, people 0, 1, 2, 3, and 5 know the secret after all the meetings.
```

Example 2:

```
Input: n = 4, meetings = [[3,1,3],[1,2,2],[0,3,3]], firstPerson = 3
Output: [0,1,3]
Explanation:
At time 0, person 0 shares the secret with person 3.
At time 2, neither person 1 nor person 2 know the secret.
At time 3, person 3 shares the secret with person 0 and person 1.
Thus, people 0, 1, and 3 know the secret after all the meetings.
```

Example 3:

```
Input: n = 5, meetings = [[3,4,2],[1,2,1],[2,3,1]], firstPerson = 1
Output: [0,1,2,3,4]
Explanation:
At time 0, person 0 shares the secret with person 1.
At time 1, person 1 shares the secret with person 2, and person 2 shares the secret with person 3.
Note that person 2 can share the secret at the same time as receiving it.
At time 2, person 3 shares the secret with person 4.
Thus, people 0, 1, 2, 3, and 4 know the secret after all the meetings.
```

Example 4:

```
Input: n = 6, meetings = [[0,2,1],[1,3,1],[4,5,1]], firstPerson = 1
Output: [0,1,2,3]
Explanation:
At time 0, person 0 shares the secret with person 1.
At time 1, person 0 shares the secret with person 2, and person 1 shares the secret with person 3.
Thus, people 0, 1, 2, and 3 know the secret after all the meetings.
```

Constraints:

```
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      • 2 \le n \le 10^5
      • 1 <= meetings.length <= 10^5
      • meetings[i].length == 3
        0 \le x_i, y_i \le n - 1
      • x<sub>i</sub> != y<sub>i</sub>
      • 1 \le time_i \le 10^5
      • 1 <= firstPerson <= n - 1
```

```
JavaScript
                                                                                                                                                                                                                                                                                                            \mathfrak{C}
                                                                                                                                                                                                                                                                                                                       •
              const initializeGraph = (n) \Rightarrow { let G = []; for (let i = 0; i < n; i++) { G.push([]); } return G; };
              const packUGCost = (G, Edges) \Rightarrow \{ for (const [u, v, cost] of Edges) \{ G[u].push([v, cost]); G[v].push([u, co
      3
      4 ▼
              const findAllPeople = (n, meetings, firstPerson) => {
      5
                         let g = initializeGraph(n), timeDis = Array(n).fill(Number.MAX_SAFE_INTEGER), res = [];
      6
                         packUGCost(q, meetings);
      7 ▼
                          let pq = new MinPriorityQueue({
                                    compare: (x, y) \Rightarrow \{
      8 ▼
      9
                                               if (x[0] != y[0]) return x[0] - y[0];
   10
                                               return x[1] - y[1];
   11
                                    }
   12
                         });
                         pq.enqueue([0, firstPerson]);
   13
   14
                         pq.enqueue([0, 0]);
   15
                         timeDis[firstPerson] = 0;
   16
                         timeDis[0] = 0;
   17 ▼
                         while (pq.size()) {
   18
                                    let [t, cur] = pq.dequeue();
   19
                                    if (timeDis[cur] != t) continue;
   20
                                    res.push(cur);
   21 ▼
                                    for (const [child, tc] of g[cur]) {
   22
                                               if (tc < t) continue;
                                               if (timeDis[child] > tc) {
   23 🔻
                                                          timeDis[child] = tc;
   24
   25
                                                         pq.enqueue([tc, child]);
                                               }
   26
   27
                                   }
   28
                         }
   29
                         return res;
   30
             };
☐ Custom Testcase
                                                     Use Example Testcases
                                                                                                                                                                                                                                                                                  Run
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