Interview Questions: Union-Find (ungraded)





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1. Social network connectivity. Given a social network containing n members and $\frac{1}{2}$ Grade of the containing n timestamps at which times pairs of members formed

1 point

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a friend). Assume that the log file is sorted by timestamp and that friendship is an equivalence relation. The running time of your algorithm should be $m \log n$ or **Assignment details** better and use extra space proportional to n.

Note: these interview questions are ungraded and purely for your own Nov 10, 8:56 AM PST Unlimited enrichment. To get a hint, submit a solution.

Resume

What do you think?

Your grade

To pass you need at least 1%. We keep your highest score.

Y for cannot be more than 10000 characters.

View submission

See feedback

2. Union-find with specific canonical element. Add a method find() to the union-find data type so that find(i) returns the largest element in the connected component containing i. The operations, union(), connected(),

1 point

் and find() prishould all चिक्रिक्ष முது rish nesso time or better.

For example, if one of the connected components is $\{1,2,6,9\}$, then the $\mathtt{find}()$ method should return 9 for each of the four elements in the connected components.

What do you think?

Your answer cannot be more than 10000 characters.

