

Union-find + exercise

 Note 8 (membership-union)

TP: phase transition in Erdős-Rényi

Implement union-find:

n = number of nodes in the graph (input)

Add N random edges

What is the N for which the graph becomes connected?

Compare N/n versus n .

Executable to implement:

`unionfind.ERPhaseTransition n rep`

Displays an array of rows `rep` with pairs ($n - N$):

```
% java unionfind.ERPhaseTransition 1024 100
1024 3420
1024 3900
1024 5432
1024 ...
```