

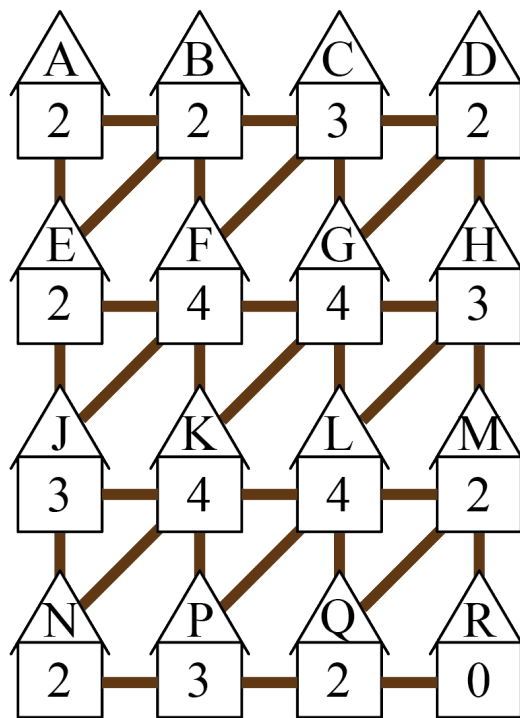


## Problem of the Week

### Problem D

### Power Puzzle

Sixteen cabins are in a large forest, and each cabin is connected to at least two of the other cabins by walking trails, as shown in the diagram. Two cabins are said to be *neighbours* if they are directly connected by a trail segment. After a big storm, each resident walked to each of their neighbours houses to ask whether or not they had lost power. In the diagram, the number on each cabin indicates the number of its neighbours who still had power after the storm.



Determine which cabins still have power after the storm.

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This problem was inspired by a past [Beaver Computing Challenge \(BCC\)](#) problem.

