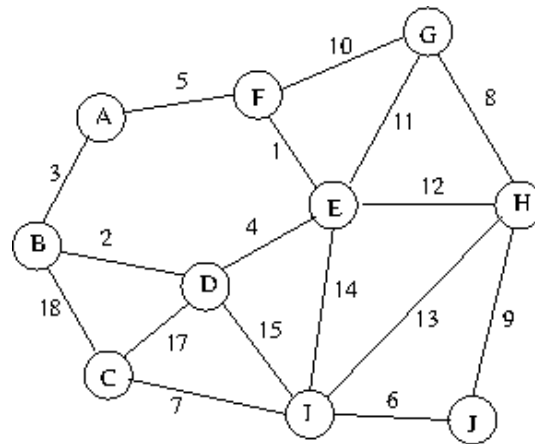**Exercise 1**   Find the minimum spanning tree in the following network. Report the edges that belong to the minimum spanning tree as well as the graph of the union-find data structure; connect the root of the tree with the smallest height to the root of the tree with largest height and, in case of a tie, choose as root the node with the smallest label.

Figure 1 – Graph 1

Exercise 2   Read the problem *Jocas is Streching the Cable* in EA2023_PL in Mooshak and solve it as a Minimum Spanning Tree Problem.