UNIT 2

Lesson 17: Minimal Spanning Tree

Overview

This is an extension activity to follow up on strategy learned while completing muddy city.

Lesson Summary

- *Complete Muddy City activity. As part of activity students shared strategies for solving a minimal spanning tree, such as figuring out the the number of connections will be n-1 and to always start with the shortest connections.*
- *Using Google Drawing, students complete their own minimal spanning tree. They create two files - 1 file without answer, 1 with answer.*
- *File without answer is printed out and solved by a classmate to see if creator and classmate get the same answer.*

CS Content

Computational Thinking

- *Design and implement creative solutions and artifacts*
- *Analyze their computational work and the work of others*

Minimal Spanning Trees

Objectives

Students will be able to:

- understand the strategies for solving a minimal spanning tree.

Materials and Prep

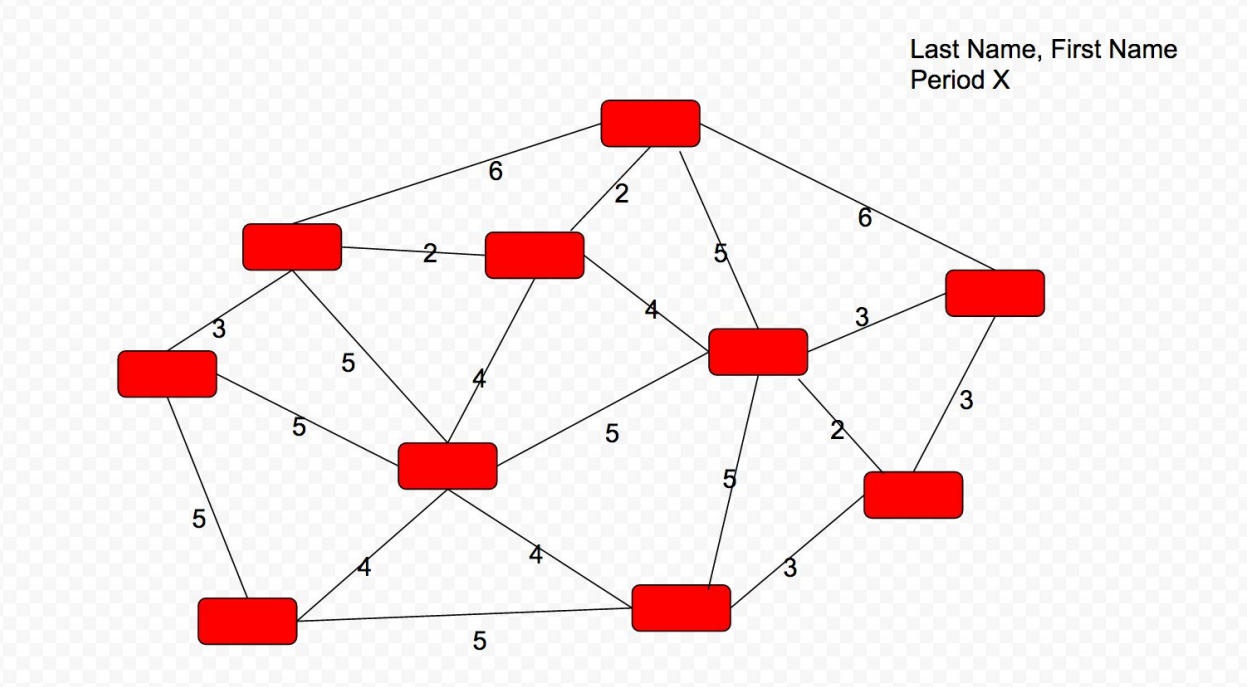
- Students need google drive account.

Resources

Student Documents

- *see sample p2.*

Unsolved problem



solved problem