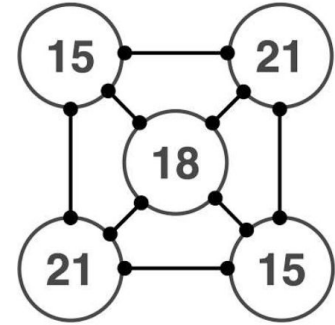
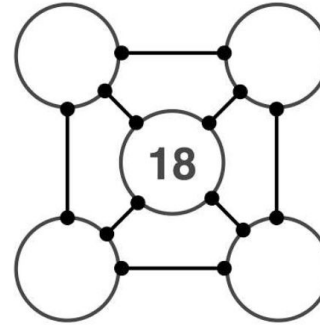


# Digit Sum Graphs

Fariha Ahmed, CS 161

# Project Overview

- User is given a graph made up of many interconnected nodes
- **Goal:** fill in the nodes with positive whole numbers in such a way that each node's value is the sum of the digits of all the numbers connected to it



## Tech Stack:

- *Frontend:* Next.js, Tailwind
- *Backend:* Flask, MySQL, Docker

# Features

## Finished Features:

- Basic landing page
- Navbar
- Account creation
- Login/logout functionality
- User sessions
- Game page
- 'Submit Solution' mechanism

## Features in Progress:

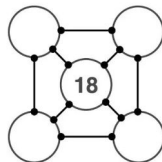
- 'Generate Solution' mechanism
- Scoring mechanism
- User/admin dashboard
- Admin functionalities

Menu

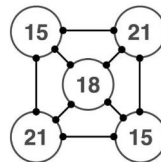
# ★ DIGIT SUM GRAPHS

In each diagram, fill in the circles with positive whole numbers in such a way that each circle's number is the sum of the digits of all the numbers connected to it.

Example:



Solution:



The solution works because:

Circle 1, 5:  $15 = (2 + 1) + (1 + 8) + (2 + 1)$

Circle 2, 4:  $21 = (1 + 5) + (1 + 8) + (1 + 5)$

Circle 3:  $18 = (1 + 5) + (2 + 1) + (1 + 5) + (2 + 1)$

Play now!

## Landing Page

Demo