Algorithms & Data Structures I Week 2 Lecture Note

Notebook:	Algorithms & Data Structures I		
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Cornell Notes	**Topic:** Problems, algorithms, and flowcharts Part 2	Course: BSc Computer Science Class: CM1035 Algorithms & Data Structures I [Lecture] Date: October 16, 2020

Essential Question:

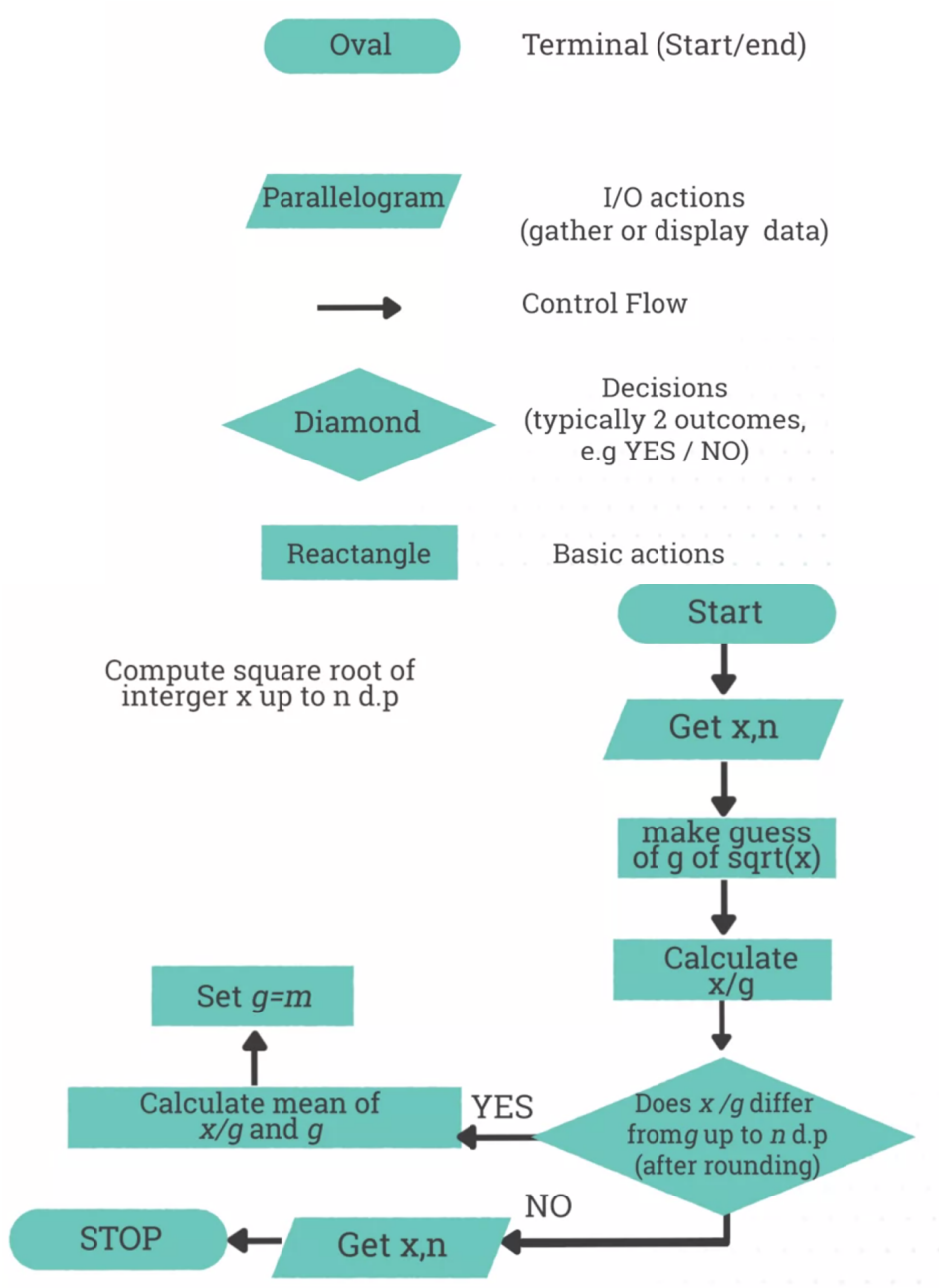
How are flowcharts utilized in Computer Science?

Questions/Cues:

- What is a flowchart?

Notes

- Flowchart = are abstract enough to describe arbitrary process like workflow and project management. Flowcharts are composed of boxes and arrows connecting them. The boxes typically represent actions, called activities, states of affairs or decisions. The arrows represent workflow or they are outcomes that result from decisions.
    - Oval shape represents the terminal action which the start and end of the flowchart
    - The parallelogram represents I/O actions or input output actions,. These typically involve gathering or displaying data
    - Arrows represent control flow from how we connect one box to the other
    - Diamond box represents decisions and inside the diamond we will typically have a question that has two outcomes: yes, no.
    - Rectangle box represents basic actions



Summary

In this week, we learned about what a flowchart is and the basic shapes that represent different functions within it.