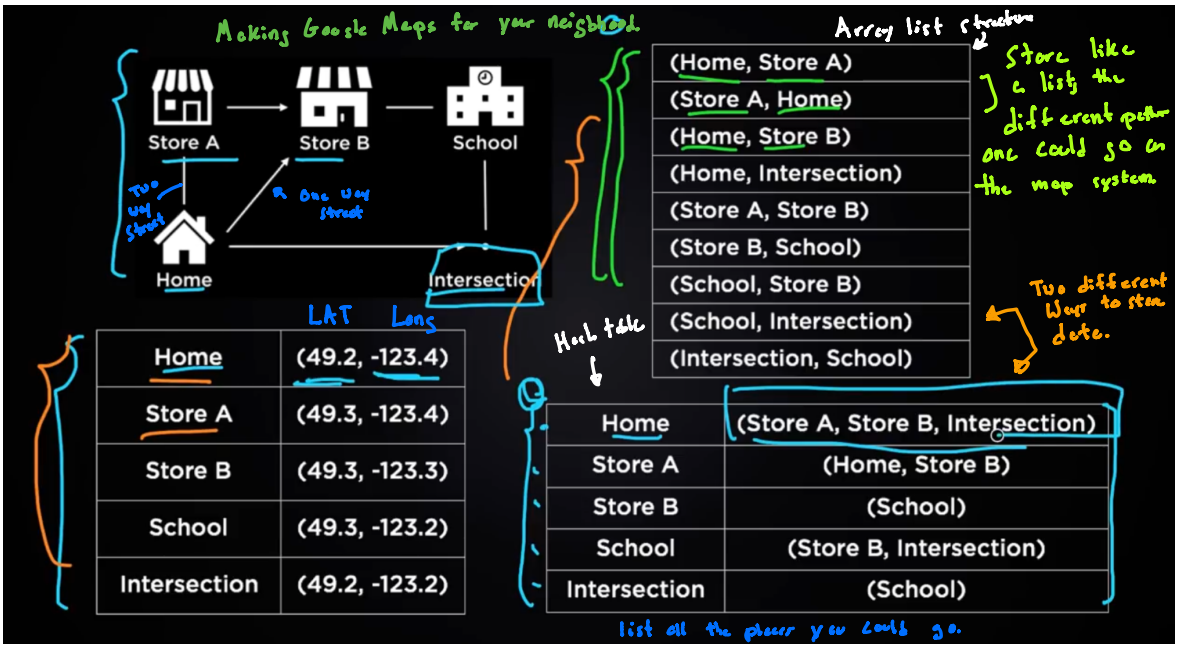
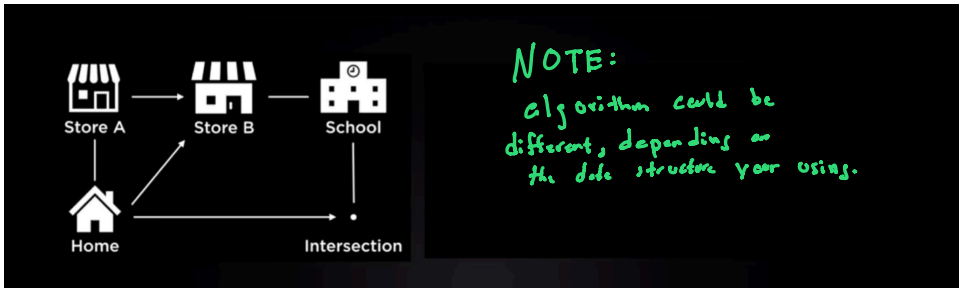


Data Structures: Ways to store data on your computer.

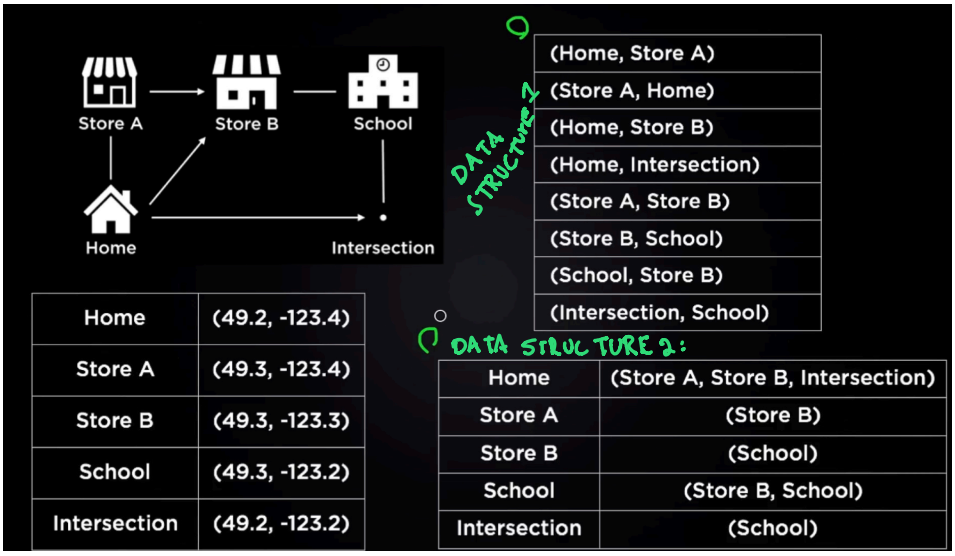
Algorithms: Operations we can perform on different data structures + set of instructions for executing them.

Find Shortest path from home to school?



Set of Instructions: (so a Computer could understand)

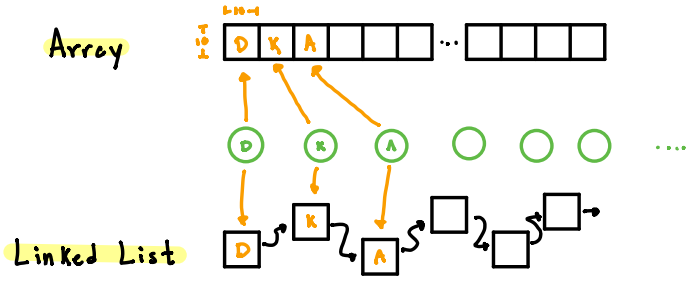
- Find places you can go from home
- From each of those places, find all paths
- Keep track of the distance you've traveled as you go
- Repeat this process until you get to school
- Compare the distance you've traveled
- Find the shortest path



Example:

Hosting a Party

- Every one brings a ball with their name on it.



Individual boxes connected with strings

Which data structure should you use for this party?

- Depends on the situation

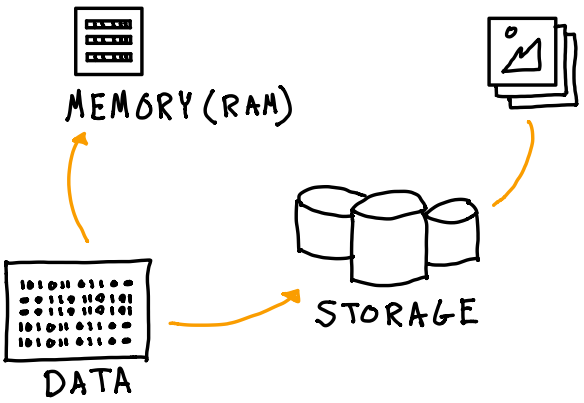
Arrays and Memory

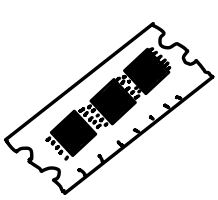
Video #2

~ Array, collection

How memory works on a Computer.

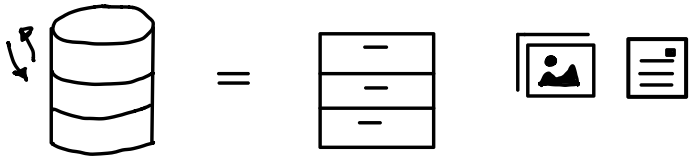
- 2 main ways of storing memory on a computer
  - MEMORY RAM ~> Data on Memory disappears when you shut off your computer.
  - STORAGE - (hard disk)





Memory

Desk



Storage

File Cabinet