Neeru Konda Satya Sai Siva Rama Krishna

≈ 3 years teaching DSA : Full Time Scaler from 2+ years

2019 Sept/Oct

FAQ's:

- Notes will be shared & Session Recorded : Pdf in Dashboard End
- 75 min class, after that chit-chat / Story
- No pre-requisite, no jourgons only fun
- Not audible / Not able see / Please reload

Todays Content:

- Intro: Data structure & Algorithms
- Petrol & Blast / Game

Don't be like 1st bench student

- Don't give anxiety to your friends
- lot new to coding: Anxiety

Data Structure & Algorithms :

Algorithm : Step by Step process to perform task

Day to Day life

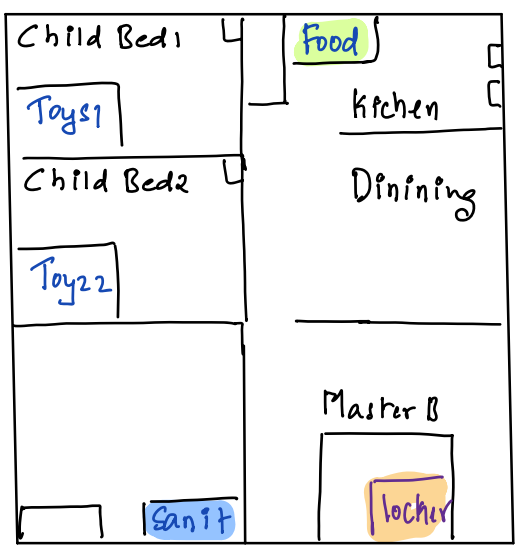
a. Chai / Coffe
b. getting ready office
c. H/W : observe algo follow in your life

Get money ATM :

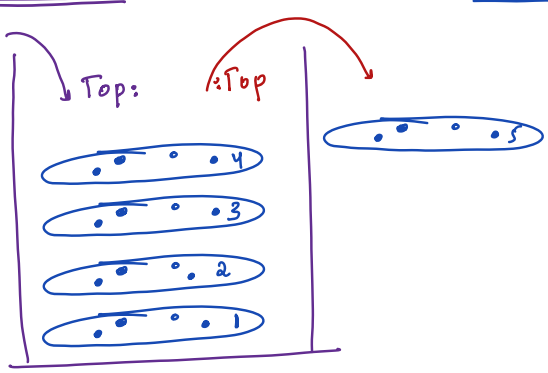
Steps :

- Enter ATM : 1st
- Insert debit card
- Enter correct pin
- Enter amount
- Collect cash
- Press Cancel
- Exit ATM

Data Structure : 3BHK



Structures : Insert & Removal : Top = Stack



1. ← → 2. undo & redo : Stack

Note : arranging stuff based on our use case

arranging data as per your requirment in memory in different structures is data structure

Q: Fire : Petrol Bunk

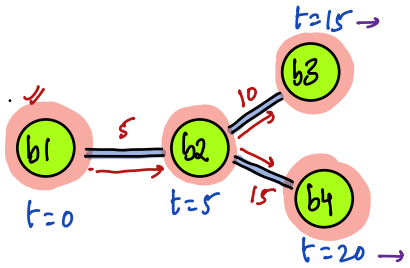
● → representing petrol pump : Vehicles

a. ——— line indicates length of petrol pipe between 2 bunks

b. Initially say bunk 1 blasted c. Petrol burns at 1km/min

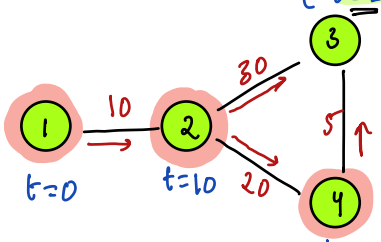
d. Calulate time at which each bunk is blasted,

Ex1:



b_1	b_2	b_3	b_4
0	5	15	20

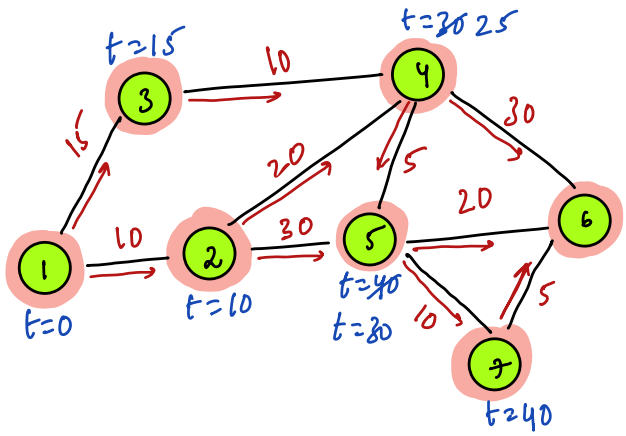
Ex2:



{ t=40 fire to reach 3 via 2
{ t=35, fire to reach 3 via 4

t=30, fire to reach 4 via 2

Ex3:

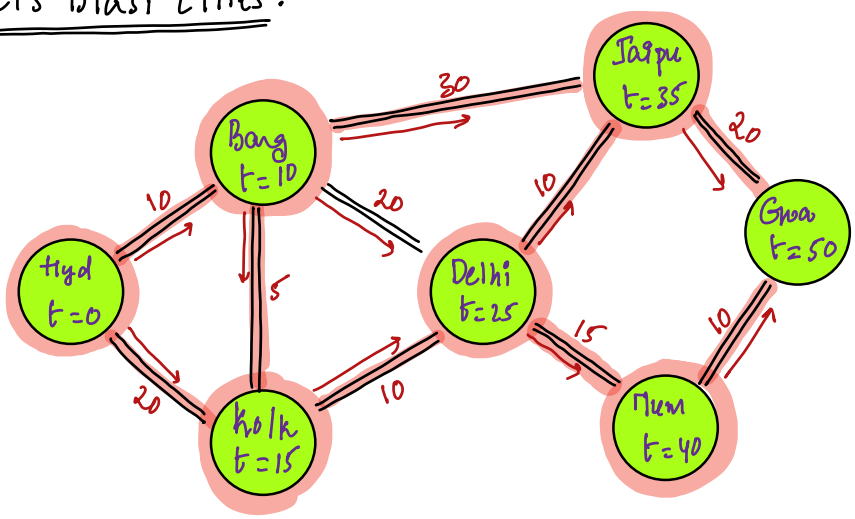


~~t=55~~ ~~t=50~~ t=45

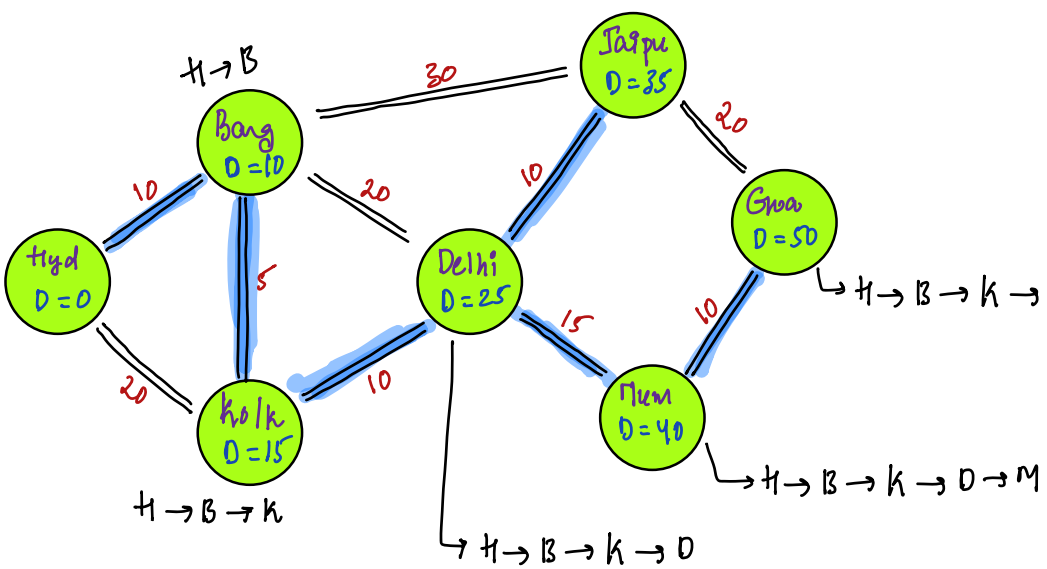
Step1: At each step1 : Dijkstras Algorithm

1. We blast bunk with lesser time
2. Fire propagates to bunks, connected to blasted bunk update time of blast

Let's Blast Cities:



H → B → K → D → J



Q: From hyd, I need length of shortest to all cities