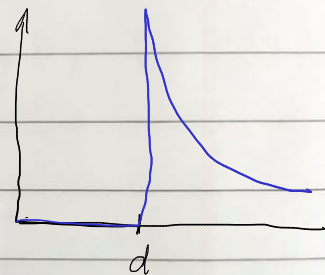


better the ^{rating} application, the company can incentivize them for joining huge ~~con~~ construction projects that gives continuous income for a longer period.

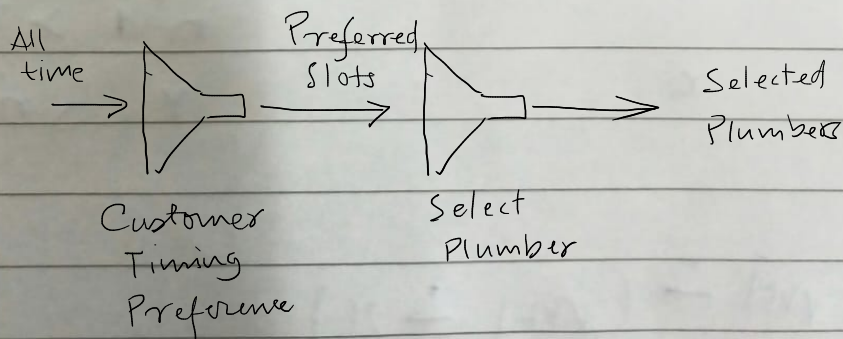
1. Customer Problem
2. Plumber specialisation

2. Distance $\propto \frac{1}{\text{Preference}}$

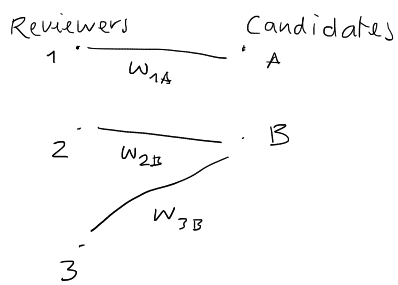


3. Rating based incentives to plumbers.

4. How soon a plumber is available?



Edge Sorting



1 A }
3 B }
2 B }

Max Flow Min Cost

C

1. Customer Problem
2. Plumber specialisation

2. Distance $\propto \frac{1}{\text{Preference}}$

$S_{PC} \rightarrow$ # matching specialisation/problem.

D

3. Rating based incentives to plumbers. R
time from the complaints to earliest available plumber time.
4. How soon a plumber is available? T.
5. Experience (# assignments completed) E

$$W_{PC} = S_{PC} + \frac{K_D}{D_K} + ER + \frac{K_T}{T} \leftarrow \text{Fine Tuning}$$

| | w^1 | w^2 | w^3 |
|----------|-------|-------|-------|
| T_1 | - | - | - |
| T_2 | - | - | - |
| \vdots | | | |
| T_n | | | |

Experimental Result

How to test and improve the algorithm.

- Independent implementation & test trip

