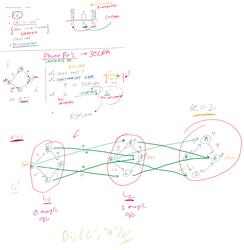
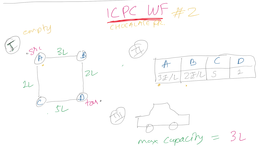


ICPC WF #2



A	B	C	D
3L/L	2L/L	5	2

buy 3L — 9₹
A → B
buy 2L — 4₹
B → D.
13₹

And min ₹ from
src → tar

WA
{ • construction
• optimization }

{ problem solving
↳ intuition }

Classes

GRAPHX
idea → code

- Java → 170
- python → 150
- C++ → 2100

blueprint

class CAR {
int weight;
double speed;
};

datatype → variable
int x;

CAR bmw;

custom datatype → object

bmw.weight = 70;
cout << bmw.speed;

GRAPHX

idea → code
< 10min

graph
BFS

Graph G(500);
G.add_edge(1, 2)
G.add_edge(2, 1)
⋮

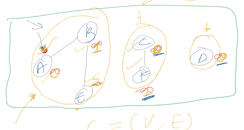
BFS bfs(&G);
bfs.run(1); // O(V+E)
bfs.min_dist(4); // O(1)

Graph as Grid

Graph G(500);
G.add_edge({0,0}, {1,0})
M N
BFS(G, "0,0")(0,3)

bfs.run({0,0})
cout << bfs.min_dist({0,3})

number of components



3

G = (V, E)
{ V = {A-F}, E = {(A,B), (B,E), (C,F)} }

thejobvaflow.com

```
for (node : [A-F]) {
    if (node != visited) {
        BFS.run(node);
        ans++;
    }
}
cout << ans;
```

BFS bfs(&G);
bfs.min_dist(5) == -1

GRAPH

0 → expert

{ bruteforce
Dfs }

p → s
p → s
p → s

"leetcode"

grinding

HQ
editorial

p → sys design
efficient

recipe
pattern
p → s
p → c

recipe
p → s

m

"400"
yellow@CF
top 15

g insibar

⇒ expert

contest top 1%
3/4 → 4/4
~~DARK~~

contest → rank
"AlgoCup"

High Freq Trading

DSA
Math
Stats
probl

3.5 L/mo
+ Housing

"Quant" Optimal

$ ×

{ top IIT old
"All Star" }

SWE Intern
Quant Intre

inc.
9.5 ⟷ 5.2
okay "regime"