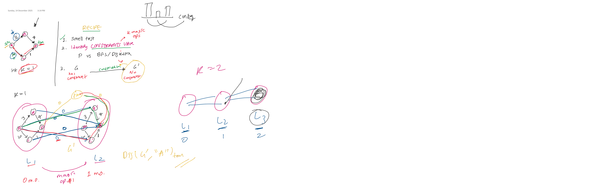


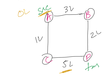
$$\frac{G}{K=1} = \frac{K \cdot G}{1 \quad 0}$$

DGPE WTF #2

chocolate problem

pdf → image

① Roadmap



② Fuel Prices

A	B	C	D
3₹/L	2.5₹/L	5₹/L	1₹/L

sac → tm $ min

Buy 3L at A 3×3 = 9₹

A → B

Buy 2L at B 2×2 = 4₹

B → D +

13₹

GRAPH X

Blueprint

```
class CAR {
    int maxspeed;
    double wt;
};
```

datatype

int A; var

||

CAR bmw; obj

custom DT

bmw.wt = 703;

⋮

(PR names)

"python" - 40

"java" - 150

"C++" - 10K

"classes"

GRAPH X

10 x

- Graph
- BFS

```
Graph G(500);
G.add_edge(1,3)
G.add_edge(3,1)
```

```
BFS bfs(&G);        // graph
bfs.run(1)          // SAC node
print(bfs.min_dist(3))
```

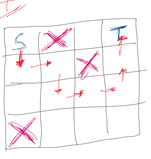
// O(nodes + edges) → TC

// SO (1 → 3)

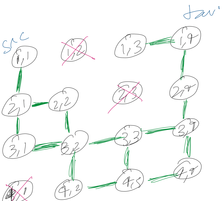
→ O(1)

Graph as Grid

Z



grid



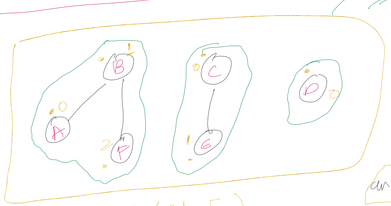
graph

```
Graph G(5000);
G.add_edge({1,1}, {2,1})
```

---

nos. of components

3



G(N, E)

ans = 0 + 2 = 3

```
for (N: node) {
    if (N → not visited) {
        ans++
        bfs.run(A);
    }
}
print(ans)
```