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1 Graph Theory

1.1 DFS

```
1 vector<int> G[N];
2 bitset<N> vis;
3 void dfs(int s) {
4     vis[s] = 1;
5     for (int t : G[s]) {
6         if (!vis[t])
7             dfs(t);
8     }
9 }
```

1.2 BFS

```
1 vector<int> G[N];
2 bitset<N> vis;
3 void bfs(int s) {
4     queue<int> q;
5     q.push(s);
6     vis[s] = 1;
7     while (!q.empty()) {
8         int v = q.front();
9         q.pop();
10        for (int t : G[v]) {
11            if (!vis[t]) {
12                q.push(t);
13                vis[t] = 1;
14            }
15        }
16    }
17 }
```

2 Number Theory

2.1 thm

- 中文測試
- $\sum_{i=1}^n i^2 = \frac{n(n+1)(2n+1)}{6}$