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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[i])
7    dfs(i);
8 }
9 }
```

1.2 BFS

```
1 vector<int> G[N];
2 bitset<N> vis;
3 void bfs(int s) {
    queue<int> q;
    q.push(s);
    vis[s] = 1;
    while (!q.empty()) {
      int v = q.front();
8
      q.pop();
9
      for (int t : G[v]) {
10
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
- $\sum_{i=1}^{n} i^2 = \frac{n(n+1)(2n+1)}{6}$