

```
1  #include<stdio.h>
2  #include<string.h>
3  #include<vector>
4  #include<utility>
5  #include<queue>
6  using namespace std;
7
8  #define MAX 11234
9  #define INF 1123456789
10
11 typedef long long ll;
12 typedef pair<int, int> ii;
13 typedef vector<ii> vii;
14
15 int n, seen[MAX], dist[MAX];
16
17 ll prim(int s, vector<vii> &LG) {
18     int u, i, v, c;
19     ll ret = 0;
20     priority_queue< ii, vector<ii>, greater<ii> > Q;
21     for (u = 0; u < n; u++) dist[u] = INF;
22     dist[s] = 0; Q.push(ii(0, s));
23     while (!Q.empty()) {
24         u = Q.top().second; Q.pop();
25         if (seen[u]) continue;
26         seen[u] = 1; ret += dist[u];
27         for (i = 0; i < (int)LG[u].size(); i++) {
28             c = LG[u][i].first; v = LG[u][i].second;
29             if (dist[v] > c) {
30                 dist[v] = c; Q.push(ii(c, v));
31             }
32         }
33     }
34     return ret;
35 }
36
37 int main(void) {
38     int i, k, v, c, fam = 0;
39     ll resp = 0;
40     scanf("%d", &n);
41     vector <vii> LG(n);
42     for (i = 0; i < n - 1; i++) {
43         scanf("%d", &k);
44         while (k--) {
45             scanf("%d %d", &v, &c); v--;
46             LG[i].push_back(ii(c, v)); LG[v].push_back(ii(c, i));
47         }
48     }
49     memset(seen, 0, sizeof(seen));
50     for (i = 0; i < n; i++)
51         if (!seen[i]) { fam++; resp += prim(i, LG); }
52     printf("%d %lld\n", fam, resp);
53     return 0;
54 }
```