#include

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using namespace std;

#define L 20

#define B 100000000

vector g[1010];

struct number

{

long long a[L];

} one;

pair d[1010][2];

number sum(number a, number b)

{

int i;

number c;

long long d, k = 0;

for (i = L-1; i >= 0; i--)

{

d = a.a[i]+b.a[i];

c.a[i] = (d+k)%B;

k = (d+k)/B;

}

return c;

}

number mul(number a, number b)

{

number c;

int i, j, n, m;

long long p, l, k;

for (i = 0; i < L; i++)

c.a[i] = 0;

for (n = 0; a.a[n] == 0; n++);

for (m = 0; b.a[m] == 0; m++);

for (i = L-1; i >= n; i--)

for (j = L-1; j >= m; j--)

{

p = a.a[i]\*b.a[j];

for (k = i+j-L+1; p; k--)

{

l = c.a[k];

c.a[k] = (l+p)%B;

p = (l+p)/B;

}

}

return c;

}

pair solve(int p, int t)

{

pair &it = d[p][t];

if (it.first != -1)

return it;

int i;

pair a, b;

it = make\_pair(0, one);

if (t == 0)

{

for (i = g[p].size()-1; i >= 0; i--)

{

a = solve(g[p][i], 0);

b = solve(g[p][i], 1);

if (a.first == b.first)

{

if (a.first)

a.second = sum(a.second, b.second);

}

else

if (a.first < b.first)

a = b;

it.first += a.first;

it.second = mul(it.second, a.second);

}

return it;

}

int j;

pair c;

for (i = g[p].size()-1; i >= 0; i--)

{

c = solve(g[p][i], 0);

for (j = g[p].size()-1; j >= 0; j--)

if (j != i)

{

a = solve(g[p][j], 0);

b = solve(g[p][j], 1);

if (a.first == b.first)

{

if (a.first)

a.second = sum(a.second, b.second);

}

else

if (a.first < b.first)

a = b;

c.first += a.first;

c.second = mul(c.second, a.second);

}

if (it.first < c.first+1)

it = make\_pair(c.first+1, c.second);

else

if (it.first == c.first+1)

it.second = sum(it.second, c.second);

}

return it;

}

void print(number a)

{

int i;

for (i = 0; a.a[i] == 0; i++);

printf("%lld", a.a[i]);

while (++i < L)

printf("%08lld", a.a[i]);

putchar('\n');

}

int main()

{

int n, m, p, q, i;

pair a, b;

scanf("%d", &n);

if (n == 1)

{

printf("0\n1\n");

return 0;

}

for (i = 0; i < n; i++)

{

scanf("%d", &p);

for (scanf("%d", &m); m > 0; m--)

{

scanf("%d", &q);

g[p-1].push\_back(q-1);

}

}

memset(d, -1, sizeof(d));

for (i = 0; i+1 < L; i++)

one.a[i] = 0;

one.a[i] = 1;

a = solve(0, 0);

b = solve(0, 1);

if (a.first == b.first)

a.second = sum(a.second, b.second);

else

if (a.first < b.first)

a = b;

printf("%d\n", a.first);

print(a.second);

return 0;

}