/\*

TASK:boxes

LANG:C++

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#define PROG 1

#if PROG

#include

//#include

int st[100010];

int par[100010];

bool t[100010], s[100010];

int \*g[100010], deg[100010];

void dfs(int p)

{

int l = 0, q, i;

st[l++] = p;

t[p] = s[p] = 1;

while (l)

{

p = st[--l];

for (i = deg[p]-1; i >= 0; i--)

{

q = g[p][i];

if (!t[q])

{

t[q] = s[q] = 1;

st[l++] = q;

}

}

}

}

int main()

{

// freopen("input.txt", "r", stdin);

int l, n, m, p, a, b, i;

// printf("%d\n", clock());

for (l = 0; l < 2; l++)

{

scanf("%d", &n);

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

{

deg[i] = 0;

par[i] = -1;

t[i] = s[i] = 0;

}

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

{

scanf("%d", &p);

if (p-1 != i)

{

deg[p-1]++;

par[i] = p-1;

}

}

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

{

g[i] = new int[deg[i]+1];

deg[i] = 0;

}

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

if (par[i] != -1)

g[par[i]][deg[par[i]]++] = i;

m = 0;

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

if (par[i] == -1)

{

dfs(i);

m++;

}

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

if (!t[i])

{

for (p = par[i]; !s[p]; p = par[p])

s[p] = 1;

t[p] = 1;

dfs(p);

m++;

}

if (l == 0)

a = m;

else

b = m;

/\* for (i = 0; i < n; i++)

delete g[i];\*/

}

printf("%d %d\n", a, b);

// printf("%d\n", clock());

return 0;

}

#endif

#if !PROG

#include

#include

#include

int main()

{

freopen("input.txt", "w", stdout);

int n, t, i;

srand(time(0));

for (t = 0; t < 2; t++)

{

scanf("%d", &n);

printf("%d\n", n);

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

printf("%d\n", 1+rand()%n);

}

return 0;

}

#endif