Problem Link:

<https://codeforces.com/problemset/problem/115/A>

Solution:

* **#include** <bits/stdc++.h>
* **using** **namespace** std;
* **const** **int** n = 2005;
* **int** p[n], d[n];
* **int** func(**int** i) {
* **if**(d[i])
* **return** d[i];
* **if**(p[i] == -1)
* **return** d[i] = 1;
* **return** d[i] = 1 + func(p[i]);
* }
* **int** main() {
* **int** t;
* cin >> t;
* **for** (**int** i = 1; i <= t; ++i)
* cin >> p[i];
* **int** m = 0;
* **for**(**int** i = 1; i <= t; ++i)
* m = max(m, func(i));
* cout << m << **"\n"**;
* **return** 0;
* }