#include <iostream>

#include <vector>

using namespace std;

int missingNumber(vector<int> &arr) {

int n = arr.size() + 1;

vector<int> hash(n + 1, 0);

for (int i = 0; i < n - 1; i++) {

hash[arr[i]]++;

}

for (int i = 1; i <= n; i++) {

if (hash[i] == 0) {

return i;

}

}

return -1;

}

int main() {

vector<int> arr = {1, 2, 3, 5};

int res = missingNumber(arr);

cout << res << endl;