CodingQuiz1 - recursion

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solution.cpp

```cpp
#include<iostream>
#include<cstdio>
using namespace std;

class ProblemSolution{
    public:
        int findMagicIndex(int a[], int n);

};

int findMagicIndexHelp(int a[], int n, int ind){

    if(a[ind] == ind){
        return ind;
    } else {
        if(ind - 1 == n){
            return -1;
        } else {
            return findMagicIndexHelp(a, n, ind + 1);
        }
    }

}

int ProblemSolution :: findMagicIndex(int a[], int n){
    //write your code here

    if(n == 0){
        return -1;
    }

    return findMagicIndexHelp(a, n, 0);
```

```
}

//Your program will be evaluated by this main method and several test cases.

int main(){
    int N;
    cin >> N;
    int A[N];
    for(int i=0; i<N ; i++){
        cin >> A[i];
    }
    ProblemSolution problemSolution;
    cout << problemSolution.findMagicIndex(A,N);
}
```

Name

Default1

Input

7 -1 0 2 3 4 5 6

Output (Lines:2)

2

Expected Output (Lines:1)

2

Status

Pass

Name

Default2

Input

2 -2 0

Output (Lines:2)

-1

Expected Output (Lines:1)

-1

Status

Pass