

```

function solution1() {
    //c++ 이용
    #include <iostream>

    //1번
    using namespace std;

    int a[101][2];

    void pre(int N){
        if(N == -1) return;
        cout << (char)(N + 'A');
        pre(a[N][0]);
        pre(a[N][1]);
    }

    void inO(int N){
        if(N == -1) return;
        inO(a[N][0]);
        cout << (char)(N + 'A');
        inO(a[N][1]);
    }

    void post(int N){
        if(N == -1) return;
        post(a[N][0]);
        post(a[N][1]);
        cout << (char)(N + 'A');
    }

    int main(){
        int count;
        cin >> count;

        for(int i = 0; i < count; i++){
            char x, y, z;
            cin >> x >> y >> z;
            x = x - 'A';
            if(y == '.'){
                a[x][0] = -1;
            }else{
                a[x][0] = y - 'A';
            }
            if(z == '.'){
                a[x][1] = -1;
            }else{
                a[x][1] = z - 'A';
            }
        }
        pre(0);
        cout << "\n";
        inO(0);
        cout << "\n";
        post(0);

        return 0;
    }
}

```

```
}
```

```
//2번
```

```
function solution2_2() {
  let a = Number(gets().trim());
  let purpose = gets().split(' ');
  gets();
  let ansarr = Array.from(Array(2), () => Array(3).fill(0));
  ansarr[0][0] = purpose[0];
  ansarr[1][0] = purpose[1];
  for (let i = 1; i < a; i++) {
    let temp = gets().split(' ');
    let cit = temp[0];
    temp.splice(0, 1);
    if (temp.includes(ansarr[0][0]) && ansarr[0][1] == 0) {
      ansarr[0][1] = cit;
      ansarr[0][2] = 'Korea';
    }
    if (temp.includes(ansarr[1][0]) && ansarr[1][1] == 0) {
      ansarr[1][1] = cit;
      ansarr[1][2] = 'Korea';
    }
  }
  let ans = 0;
  if (ansarr[0][2] === ansarr[1][2]) {
    ans = ansarr[0][2];
    if (ansarr[0][1] === ansarr[1][1]) {
      ans = ansarr[0][1];
      //입력된 두 구가 같을경우
      if (ansarr[0][0] === ansarr[1][0]) {
        ans = ansarr[0][0];
      }
    }
  }
  print(ans);
}
```

```
//3번
```

```
function solution3() {
  gets();
  let nodes = gets().split(' ');
  let target = Number(gets());
  let ansarr = [];
  nodes.forEach((v, i) => {
    let temp = [v, i, Math.abs(target - Number(v))];
    ansarr.push(temp);
  })
  ansarr.sort((a, b) => {
    if (a[2] != b[2]) {
      return a[2] - b[2];
    } else {
      return a[1] - b[1];
    }
  })
  let i = Number(gets());
  let ans = [];
```

```
    for (let j = 0; j < i; j++) {  
        ans.push(ansarr[j][0]);  
    }  
    print(ans.join(' '));  
}
```