

size of subtree

given a tree with size n and rooted at 0 show size of all subtree (size of subtree A is number of node that A occupy)

input:

first line get n ($n \leq 5e5$)

next $n-1$ lines get list of bi-direction edge

output:

have n line show size of all subtree

input 1:

```
5
0 1
2 0
3 1
1 4
```

output 1:

```
5 3 1 1 1
```

input 2:

```
5
4 0
3 2
1 2
4 1
```

output 2:

```
5 3 2 1 4
```

input 3:

```
4
0 1
0 2
3 0
```

output 3:

```
4 1 1 1
```