n_nodes

```
0  #
1  #
2  #
3  #
4  #
5  #
6  #
```

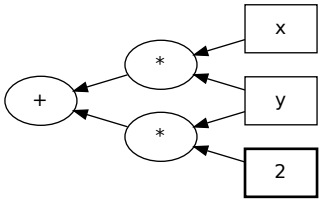
```
11 from casadi import *
12 from casadi.tools import *
```

Let's build a trivial symbolic SX graph

```
15 x = SX.sym("x")
16 y = SX.sym("y")
17 z = x*y+2*y
18 print n_nodes(z), " nodes in ", z
```

```
6  nodes in  ((x*y)+(2*y))
```

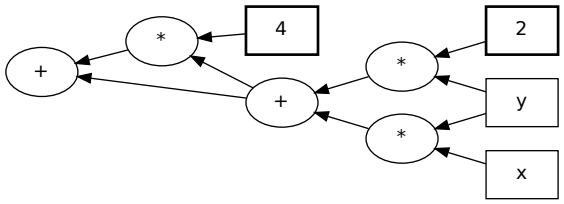
```
19 dotdraw(z)
```




```
21
22 z += 4*z
23 print n_nodes(z), " nodes in ", z
```

```
9  nodes in  @1=((x*y)+(2*y)), (@1+(4*@1))
```

```
23 dotdraw(z)
```




```
25
26 z *= z+1
27 print n_nodes(z), " nodes in ", z
```

```
12  nodes in  @1=((x*y)+(2*y)), @2=(@1+(4*@1)), (@2*(@2+1))
```

```
27 dotdraw(z)
```