

```
0 #
1 #
2 #
3 #
4 #
5 #
6 #
7 from casadi import *
8
9 a = SX.sym("a")
10 b = SX.sym("b")
11
12 c = a+b
13 c = c.printme(13)
14
15 d = c**2
16
17 print d
```

```
sq(printme((a+b),13))
```

```
21
22 f = Function("f", [a,b],[d])
```

When the graph is evaluated, a printout of c will occur (if you have set WITH_PRINTME to ON in CMakeCache.txt)
Printout reads '|> 13: 7'
13 is an identifier of choice, 7 is the numerical value of c

```
26 f(4,3)
27
28 J = f.jacobian(0,0)
```

The first derivative still depends on c
Printout reads '|> 13: 11'

```
32 J(2,9)
33
34
35 J = J.jacobian(0,0)
```

second derivative doesn't, so we don't get a printout

```
38 J(2,9)
```