

```

from z3 import *
k1 = Int('k1')
a = (1, k1), (3, 4)
b = (1, 1), (1, 1)
c = (3, 3), (7, 7)
s = Solver()
eq1 = a[0][1] > 0
eq2 = [[(sum(a[i][k] * b[k][j] for k in range(2)) == c[i][j]) for i in
range(2)] for j in range(2)]
s.add(eq1)
s.add(eq2[0][0])
s.add(eq2[0][1])
s.add(eq2[1][0])
s.add(eq2[1][1])
print(s)
print(s.check())
m = s.model()
print(m)

```

calls

```

Int
Solver
sum
range
range
range
s.add
s.add
s.add
s.add
s.add
s.add
print
print
s.model
print

```