We introduce the structure constants of sl2
We show the Killing-Cartan metric

```
 -8.00 0.00 0.00
 0.00 8.00 0.00
 0.00 0.00 8.00
```

and its determinant
-512.0

In what follows we expand sl2 with all the abelian semigroups of order 2 having
a resonance; and identify the ones that leads to a semisimple algebra.
****

A semisimple algebra has been found, expanding with the semigroup #4
1 2
2 1
whith the resonance:
S0: 1
S1: 2
The metric of the reduction of the resonant subalgebra is:

```
 -8.00 0.00 0.00
 0.00 8.00 0.00
 0.00 0.00 8.00
```

and its determinant
-512.0
****

There are 1 semigroups of order 2 at least one resonant decomposition.
In total, there are 1 different resonant decompositions.
And 1 of them leads to a semisimple algebra.
There are 0 semigroups having more than one resonance and
leading to semisimple algebras with all those resonances.