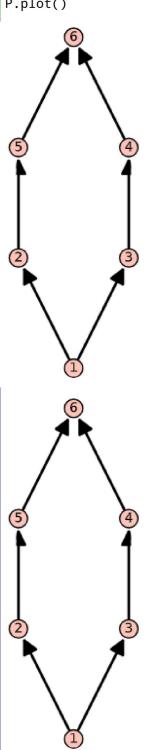
Practical 1

```
#top element
   P=Poset({0:{1,2},1:[3,4]})
 3 P.has_top()
   False
 5 #top element
 6 P=Poset({0:[1,2],1:[3],2:[3]})
 7 P.has_top()
   True
8 #bottom elements
9 P.has_bottom()
10 P.top()
11 P.bottom()
   True
   3
   0
12 #top element
13 P=Poset({1:[2,3],2:[5],3:[4],5:[6],4:[6]})
14 P.has_top()
15 P.has_bottom()
16 P.top()
17
   P.bottom()
   True
   True
   6
```

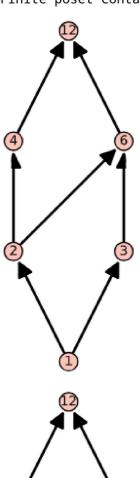
18 P
Finite poset containing 6 elements

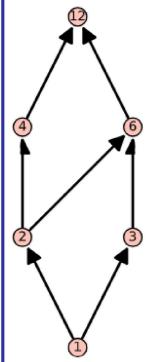
19 **P.plot()**



```
20 | #draw Poset | R=Poset((divisors(12),attrcall("divides"))) | R
```

Finite poset containing 6 elements





```
25 R=Poset((divisors(36),attrcall("divides")))
```

26 F

27 R.plot()

Finite poset containing 9 elements

