

```
20  1 #Lab 2
21  2 factorial(27)
22  3 #or
23  4 def fac(n):
24  5     if n < 0:
25  6         return -1
26  7     elif n == 0:
27  8         return 1
28  9     else:
29 10         return n * fac(n - 1)
30 11
31 12 fac(27)
32 13
33 14
34 1 binomial(8,5)
35 2 #or
36 3 def BiTheorem(n,k):
37 4     x = ((fac(n))/(fac(k) * fac(n-k)))
38 5     return x
39 6 BiTheorem(8,5)
40 7
41 8
42 1 D = Set(['a','b','c','d'])
43 2
44 3 Arrangements(D,2).list()
45 4
46 5
47 1 A = [1,5,10,25,50]
48 2
49 3 B = WeightedIntegerVectors(99,A)
50 4
51 5 B.cardinality()
52 6
```