```
Python 3.6.0 Shell
>>> [x for x in vec if x>=0]
>>> [abs(x) for x in vec]
[4, 2, 0, 2, 4]
>>>
>>> matrix = [[1,2,3,4],[5,6,7,8],[9,10,11,12],[0]]
>>> [row[i] for row in matrix] for in range(4)
SyntaxError: invalid syntax
>>> [[row[i] for row in matrix] for i in range(4)]
File "<pyshell#55>", line 1, in <module>
[[row[i] for row in matrix] for i in range(4)]
File "<pyshell#55>", line 1, in in composition in range(4)]
File "<pyshell#55>", line 1, in in range(4)]
File "<pyshell#55>", line 1, in in range(4)]
File "<pyshell#55>", line 1, in in composition range(4)]
        [[row[i] for row in matrix] for i in range(4)]
IndexError: list index out of range

>>> matrix = [[1,2,3,4],[5,6,7,8],[9,10,11,12]]

>>> [[row[i] for row in matrix] for i in range(4)]

[[1, 5, 9], [2, 6, 10], [3, 7, 11], [4, 8, 12]]

>>> zip(*matrix) = [(1,5,9),(2,6,10),(3,7,11),(4,8,12)]

SyntaxError: can't assign to function call
<zip object at 0x1019cbe88>
>>> matrix = [[1,2,3,4],[5,6,7,8],[9,10,11,12]]
SyntaxError: unexpected indent
>>> matrix = [[1,2,3,4],[5,6,7,8],[9,10,11,12]]
>>> zip(*matrix)
 <zip object at 0x1019cbec8>
>>> a = [1,2,3]
>>> b = [4,5,6]
>>> zip_demo1 = zip(a,b)
>>> zip_demo1
<zip object at 0x1019cbe88>
>>> list(zip_demo1)
[(1, 4), (2, 5), (3, 6)]
```

Ln: 95 Col: 42

Python3作了修正,解此时是对象,应用list遍历

referrence: http://blog.cs/n.net/qq_24918869/ article/details/52080163

```
<zip object at 0x1019cbec8>
>>> a = [1,2,3]
>>> b = [4,5,6]
>>> zip_demo1 = zip(a,b)
>>> zip_demo1
<zip object at 0x1019cbe88>
>>> list(zip_demo1)
[(1, 4), (2, 5), (3, 6)]
>>> import os
>>> files = [f for f in os.listdir('/Users/py/cpp') if f.endswith('.cpp')]
>>> files
['Add.cpp', 'HelloWorld.cpp', 'hexdigits.cpp', 'InputDemo1.cpp', 'inputSumDem
o.cpp', 'pointerDemo1.cpp', 'ReadDemo.cpp', 'readDemo2.cpp', 'stringDemo1.cpp
>>> map(list(zip_demo1))
Traceback (most recent call last):
File "<pyshell#77>", line 1, in <modul
    map(list(zip_demo1))
TypeError: map() must have at least two
                                                 arauments.
>>> map(list,zip_demo1)
<map object at 0x1019b33c8>
>>> list(map(list,zip_demo1))
Г٦
>>> zip_demo1
<zip object at 0x1019cbe88>
>>> list(zip_demo1)
>>> a = [1,2,3]
>>> b = [4,5,6]
SyntaxError: unexpected indent
>>> b = [4,5,6]
>>> zip_demo1 = zip(a,b)
>>> map(list,zip_demo1)
<map object at 0x1019b3b38>
>>> list(map(list,zip_demo1))
[[1, 4], [2, 5], [3, 6]]
                                                                           Ln: 166 Col: 4
```