```
In [12]:
```

```
# 列表按照元素长度排序
1 = ['Shanghai', 'Beijing', 'Tokyo', 'Taipei']
l.sort()
print(1)
['Beijing', 'Shanghai', 'Taipei', 'Tokyo']
In [6]:
# 列表按照元素长度排序
# solution #1
l = ['Shanghai', 'Beijing', 'Tokyo', 'Taipei']
def str len(s1):
    return len(s1)
l.sort(key = str_len)
print(l[::-1])
['Shanghai', 'Beijing', 'Taipei', 'Tokyo']
In [9]:
# 列表按照元素长度排序
# solution #2
l = ['Shanghai', 'Beijing', 'Tokyo', 'Taipei']
l.sort(key = lambda s: len(s))
print(1)
['Tokyo', 'Taipei', 'Beijing', 'Shanghai']
In [10]:
# 找到符合 x*x + y*y == z*z 的 x y z
# solution #1
n = 25
for x in range(1,n):
    for y in range(x,n):
        for z in range(y,n):
            if x*x + y*y == z*z:
                print(x,y,z)
3 4 5
5 12 13
6 8 10
8 15 17
9 12 15
12 16 20
```

```
In [2]:
```

```
# solution #2

n = 25
print([(x, y, z) for x in range(1, n) for y in range(x, n) for z in range(y, n)
if x*x + y*y == z*z])
```

In [ ]: