**一、集合运算**

**def** intersrction(s1, s2):  
 *"""交集"""* print(s1.intersection(s2))  
 print(s1 & s2)  
  
  
**def** union(s1, s2):  
 *"""并集"""* print(s1.union(s2))  
 print(s1 | s2)  
  
  
**def** difference(s1, s2):  
 *"""差集"""* print(s1.difference(s2))  
 print(s1 - s2)  
  
  
**def** symmetric\_difference(s1, s2):  
 *"""补集"""* print(s1.symmetric\_difference(s2))  
 print(s1 ^ s2)  
  
  
s1, s2 = {1, 2, 3}, {2, 3, 4}  
intersrction(s1, s2)  
union(s1, s2)  
difference(s1, s2)  
difference(s2, s1)  
symmetric\_difference(s1, s2)

1. 集合判断

**def** isSubSet(s1, s2):  
 *"""s1是否为s2的子集"""* **return** s1.issubset(s2)  
  
**def** isSuperSet(s1, s2):  
 *"""s1是否为s2的超集"""* **return** s1.issuperset(s2)  
  
s1 = {1,2,3}  
s2 = {1,2,3,4}  
print(isSubSet(s1, s2))  
print(isSuperSet(s1, s2))