

# Set ??

????????????????????????????????????(set)???(set)???????????????????????? (dictionary)  
??????? (value) ?? (key)

- ??????
- ???set ??????????
- ????? set ????? `set()`
- ?????????????????????????????

```
A = {"jlanksy", "drosas", "nmason"}

# Create an empty set
B = set()

# set []
basket = {'apple', 'orange', 'apple', 'pear', 'orange', 'banana'}
print(basket)           # show that duplicates have been removed
# Output: {'orange', 'banana', 'pear', 'apple'}
```

## Methods

### .add()

`.add()` ????

```
s = {1, 2, 3, 4, 5}
s.add(6)
s.add(7)
s.add(7)

print(s)
# Output {1, 2, 3, 4, 5, 6, 7}
```

### .remove()

`.remove()` ????

```
s = {1, 2, 3, 4, 5}
s.remove(5)
#s.remove(6) # Error

print(s)
# Output {1, 2, 3, 4}
```

??

?? in set

```
fruits = {'apple','banana','orange','lemon'}
print('tomato' in fruits) # Output False
result = 'apple' in fruits
print(result) # Output True
```

Set ??

```
fruits1 = {'apple','banana','orange','lemon'}
fruits2 = {'tomato','apple','banana'}
print(fruits1 & fruits2) # Output {'apple', 'banana'}
print(fruits2 & fruits1) # Output {'apple', 'banana'}
```

```
nums1 = {1,2,3,4,5}
nums2 = {2,4,6,8,10}
print(nums1.intersection(nums2)) # Output {2, 4}
print(nums2.intersection(nums1)) # Output {2, 4}
```

Set ??

```
fruits1 = {'apple','banana','orange','lemon'}
fruits2 = {'tomato','apple','banana'}
print(fruits1 | fruits2) # Output {'orange', 'banana', 'tomato', 'lemon', 'apple'}
print(fruits2 | fruits1) # Output {'orange', 'banana', 'tomato', 'lemon', 'apple'}
```

```
nums1 = {1,2,3,4,5}
nums2 = {2,4,6,8,10}
print(nums1.union(nums2)) # Output {1, 2, 3, 4, 5, 6, 8, 10}
print(nums2.union(nums1)) # Output {1, 2, 3, 4, 5, 6, 8, 10}
```

## Set ??

```
fruits1 = {'apple','banana','orange','lemon'}  
fruits2 = {'orange','lemon','tomato'}  
print(fruits1 - fruits2) # Output {'apple', 'banana'}  
print(fruits2 - fruits1) # Output {'tomato'}
```

```
nums1 = {1,2,3,4,5}  
nums2 = {4,5,6,7,8}  
print(nums1.difference(nums2)) # Output {1, 2, 3}  
print(nums2.difference(nums1)) # Output {8, 6, 7}
```

## Set ????

```
fruits1 = {'apple','banana','orange','lemon'}  
fruits2 = {'orange','lemon','tomato'}  
print(fruits1 ^ fruits2) # Output {'tomato', 'banana', 'apple'}  
print(fruits2 ^ fruits1) # Output {'tomato', 'banana', 'apple'}
```

```
nums1 = {1,2,3,4,5}  
nums2 = {4,5,6,7,8}  
print(nums1.symmetric_difference(nums2)) # Output {1, 2, 3, 6, 7, 8}  
print(nums2.symmetric_difference(nums1)) # Output {1, 2, 3, 6, 7, 8}
```

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