

Python 3.11.1 (tags/v3.11.1:a7a450f, Dec 6 2022, 19:58:39) [MSC v.1934 64 bit (AMD64)] on win32

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```
s={3,1,2,3,5,1}
```

```
s
```

```
{1, 2, 3, 5}
```

```
type(s)
```

```
<class 'set'>
```

```
len(s)
```

```
4
```

```
min(s)
```

```
1
```

```
max(s)
```

```
5
```

```
s1={10,20}
```

```
s
```

```
{1, 2, 3, 5}
```

```
s1
```

```
{10, 20}
```

```
s+s
```

```
Traceback (most recent call last):
```

```
File "<pyshell#9>", line 1, in <module>
```

```
s+s
```

```
TypeError: unsupported operand type(s) for +: 'set' and 'set'
```

```
s*3
```

```
Traceback (most recent call last):
```

```
File "<pyshell#10>", line 1, in <module>
```

```
s*3
```

```
TypeError: unsupported operand type(s) for *: 'set' and 'int'
```

```
s
```

```
{1, 2, 3, 5}
```

```
s[2]
```

```
Traceback (most recent call last):
```

```
File "<pyshell#12>", line 1, in <module>
```

```
s[2]
```

```
TypeError: 'set' object is not subscriptable
```

```
s2=set()
```

```
s2
```

```
set()
```

```
s
```

```
{1, 2, 3, 5}
```

```

s1
{10, 20}
s1={2,4}
s
{1, 2, 3, 5}
s1
{2, 4}
s.add(6)
s
{1, 2, 3, 5, 6}
s.add(1)
s
{1, 2, 3, 5, 6}
s2=s.copy()
s2
{1, 2, 3, 5, 6}
s.pop()
1
s
{2, 3, 5, 6}
s.pop()
2
s
{3, 5, 6}
s.discard(3)
s
{5, 6}
s.discard(10)
s
{5, 6}
s.remove(10)
Traceback (most recent call last):
  File "<pyshell#34>", line 1, in <module>
    s.remove(10)
KeyError: 10
s.remove(5)
s
{6}
s.update({1,2,3,6})
s
{2, 1, 3, 6}

```

```

s1={10,20}
s.update(s1)
s
{2, 1, 3, 6, 10, 20}
s1={3,4,6,10}
s
{2, 1, 3, 6, 10, 20}
s1
{10, 3, 4, 6}
s.union(s1)
{1, 2, 3, 4, 6, 10, 20}
s.intersection(s1)
{10, 3, 6}
s.difference(s1)
{1, 2, 20}
s1.difference(s)
{4}
s.isdisjoint(s1)
False
s.issubset(s1)
False
s.issuperset(s1)
False
s3={{1,2},{3}}
Traceback (most recent call last):
  File "<pyshell#52>", line 1, in <module>
    s3={{1,2},{3}}
TypeError: unhashable type: 'set'
s
{2, 1, 3, 6, 10, 20}
s1
{10, 3, 4, 6}
s.difference(s1)
{1, 2, 20}
s.difference_update(s1)
s
{2, 1, 20}
s1
{10, 3, 4, 6}
s.add(3)
s

```

```
{2, 1, 3, 20}
s1
{10, 3, 4, 6}
s.intersection(s1)
{3}
s.intersection_update(s1)
s
{3}
s.update({1,3,5})
s
{1, 3, 5}
s
s1
{10, 3, 4, 6}
>>> s.difference(s1)
{1, 5}
>>> s1.difference(s)
{10, 4, 6}
>>> s.symmetric_difference(s1)
{1, 4, 5, 6, 10}
>>> nameset={"surya","klu","ceo"}
>>> demoset={1,2.3,"surya",3}
>>> s.symmetric_difference_update(s1)
>>> s
{1, 4, 5, 6, 10}
```