operatorlar

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[1]: `2+6`

[1]: 8

[2]: `2-6`

[2]: -4

[3]: `2*3`

[3]: 6

[4]: `6/4`

[4]: 1.5

[5]: `6//5`

[5]: 1

[6]: `8%6`

[6]: 2

[7]: `6.5/2.6`

[7]: 2.5

[8]: `2**6`

[8]: 64

[9]: `2*100`

[9]: 200

[10]: `2**1000`

```
[10]:  107150860718626732094842504906000181056140481170553360744375038837035105112493612
       2249319837881569585812759467291755314682518714528569231404359845775746985748039345
       6777482423098542107460506237114187795418215304647498358194126739876755916554394607
       7062914571196477686542167660429831652624386837205668069376
```

```
[11]:  1-0.9
```

```
[11]:  0.09999999999999998
```

```
[12]:  3*0.1
```

```
[12]:  0.30000000000000004
```

```
[13]:  0.2+0.1
```

```
[13]:  0.30000000000000004
```

```
[14]:  0.3 == 0.4-0.1
```

```
[14]:  False
```

```
[15]:  a = 12
       a = a + 15
```

```
[16]:  a
```

```
[16]:  27
```

```
[17]:  a  = 12
       a += 15
       print(a)

       27
```

```
[18]:  s = "Hello"
       s = s + "World"
       print(s)

       HelloWorld
```

```
[19]:  s = "Hello"
       s += "World"
       print(s)

       HelloWorld
```

```
[20]: l1 = [1,2,3]
      l2 = [4,5]
      l = l1 + l2
```

```
[21]: l1
```

```
[21]: [1, 2, 3]
```

```
[22]: l2
```

```
[22]: [4, 5]
```

```
[23]: l
```

```
[23]: [1, 2, 3, 4, 5]
```

```
[24]: l1
```

```
[24]: [1, 2, 3]
```

```
[25]: l2
```

```
[25]: [4, 5]
```

```
[26]: l1 += l2
```

```
[27]: l1
```

```
[27]: [1, 2, 3, 4, 5]
```

```
[28]: l2
```

```
[28]: [4, 5]
```

```
[29]: l
```

```
[29]: [1, 2, 3, 4, 5]
```

```
[30]: l += 7
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-30-91dcc443fb8d> in <module>
----> 1 l += 7

TypeError: 'int' object is not iterable
```

```
[31]: l += [7]
```

```
[32]: l
```

```
[32]: [1, 2, 3, 4, 5, 7]
```

```
[33]: l += (12,)
```

```
[34]: l
```

```
[34]: [1, 2, 3, 4, 5, 7, 12]
```

```
[35]: l += "Test"
```

```
[36]: l
```

```
[36]: [1, 2, 3, 4, 5, 7, 12, 'T', 'e', 's', 't']
```

```
[37]: l += ["Test"]
```

```
[38]: l
```

```
[38]: [1, 2, 3, 4, 5, 7, 12, 'T', 'e', 's', 't', 'Test']
```

```
[39]: 3 > 2
```

```
[39]: True
```

```
[40]: 3 >= 2
```

```
[40]: True
```

```
[41]: 3 < 2
```

```
[41]: False
```

```
[42]: 3 <= 2
```

```
[42]: False
```

```
[43]: 3 == 2
```

```
[43]: False
```

```
[44]: 3 != 2
```

```
[44]: True
```

```
[45]: 4 == 4
```

```
[45]: True
```

```
[46]: a = 3 > 2
```

```
[47]: type(a)
```

```
[47]: bool
```

```
[48]: a
```

```
[48]: True
```

```
[49]: a = "Hello"
      b = "Hello"
```

```
[50]: a == b
```

```
[50]: True
```

```
[51]: a is b
```

```
[51]: True
```

```
[52]: a = 2
      b = 2
      c = 3
```

```
[53]: a == b
```

```
[53]: True
```

```
[54]: a == c
```

```
[54]: False
```

```
[55]: a is b
```

```
[55]: True
```

```
[56]: a is b
```

```
[56]: True
```

```
[57]: a is b
```

[57]: True

[58]:
```python
a is c
```

[58]: False

[59]:
```python
a = [1,2,3]
b = [1,2,3]
```

[60]:
```python
a == b
```

[60]: True

[61]:
```python
a is b
```

[61]: False

[62]:
```python
id(a)
```

[62]: 140021401431168

[63]:
```python
id(b)
```

[63]: 140021398885696

[64]:
```python
a = 2
```

[65]:
```python
b = 2
```

[66]:
```python
id(a)
```

[66]: 9780832

[67]:
```python
id(b)
```

[67]: 9780832

[68]:
```python
a = 2**1000
b = 2**1000
```

[69]:
```python
a
```

[69]: 10715086071862673209484250490600018105614048117055336074437503883703510511249361
22493198378815695858127594672917553146825187145285692314043598457757469857480393
45677748242309854210746050623711418779541821530464749835819412673987675591655439
46077062914571196477686542167660429831652624386837205668069376

```
[70]: b
```

```
[70]: 10715086071862673209484250490600018105614048117055336074437503883703510511249361
      2249319837881569585812759467291755314682518714528569231404359845775746985748039
      3456777482423098542107460506237114187795418215304647498358194126739876755916554
      394607706291457119647768654216766042983165262438683720566806937
```

```
[71]: a is b
```

```
[71]: False
```

```
[72]: a is b
```

```
[72]: False
```

```
[73]: a is not b
```

```
[73]: True
```

```
[74]: s1 = "Salem"
      s2 = "Salem"
      s3 = "salem"
```

```
[75]: s1 is s2
```

```
[75]: True
```

```
[76]: s1 is s3
```

```
[76]: False
```

```
[77]: s1 is not s2
```

```
[77]: False
```

```
[78]: s1 is not s3
```

```
[78]: True
```

```
[79]: 'o' in "Hello"
```

```
[79]: True
```

```
[80]: 'g' in "Hello"
```

```
[80]: False
```

```python
[82]: 1 in (1,2,3,4)
```

[82]: True

```python
[83]: 5 in (1,2,3,4)
```

[83]: False

```python
[84]: 5 in [2,3,4]
```

[84]: False

```python
[85]: "Hello" in "Hello everybody"
```

[85]: True

```python
[86]: (1,2,3) in (1,2,3,4,5)
```

[86]: False

```python
[87]: (1,2,3) in ((1,2,3), (4,5,6))
```

[87]: True

```python
[88]: 12 not in [1,2,3]
```

[88]: True

```python
[89]: 2 not in [1,2,3]
```

[89]: False

```python
[90]: 'salem' not in "salem barshanyzga"
```

[90]: False

```python
[91]: True and True
```

[91]: True

```python
[92]: True and False
```

[92]: False

```python
[93]: False and True
```

[93]: False

```python
[94]: False and False
```

```
[94]: False
```

```python
[95]: 0
```

```
[95]: 0
```

```python
[96]: 0.0
```

```
[96]: 0.0
```

```python
[97]: ''
```

```
[97]: ''
```

```python
[98]: []
```

```
[98]: []
```

```python
[99]: ()
```

```
[99]: ()
```

```python
[100]: {}
```

```
[100]: {}
```

```python
[101]: 2 and 3
```

```
[101]: 3
```

```python
[102]: 3 and 2
```

```
[102]: 2
```

```python
[103]: 3 or 2
```

```
[103]: 3
```

```python
[104]: 2 or 3
```

```
[104]: 2
```

```python
[105]: True or False
```

```
[105]: True
```

```python
[107]: False or True
```

```
[107]: True
```

```python
[108]: True or True
```

```
[108]: True
```

```python
[109]: False or False
```

```
[109]: False
```

```python
[110]: 3.4 or 5.6
```

```
[110]: 3.4
```

```python
[111]: 3.4 and 5.6
```

```
[111]: 5.6
```

```python
[112]: [1,2] and [3,4]
```

```
[112]: [3, 4]
```

```python
[113]: [] and [3,4]
```

```
[113]: []
```

```python
[114]: bool([])
```

```
[114]: False
```

```python
[115]: bool([2,3,4])
```

```
[115]: True
```

```python
[116]: not True
```

```
[116]: False
```

```python
[117]: not False
```

```
[117]: True
```

```python
[118]: not(True and True)
```

```
[118]: False
```

```python
[120]: not(True and False)
```

[120]: True

```python
[121]: not 2
```

[121]: False

```python
[122]: not 0
```

[122]: True

```python
[ ]:
```