

In [20]: `print ("sfdg")`

sfdg

In []:

In [21]:

```
1
2
3
4
5
6
```

Out[21]: 6

In [22]: `1+2`

`5+8`

Out[22]: 13

In [23]: `l = [`

```
    'rafail',
    'andreas',
    'aggelos',
    'elena',
    'marianna',
    'olympia',
    'agaph',
    'nikos',
    'melina',
    'katerina',
    'anna',
]
```

In [24]: `import random`

```
def g():
    return random.choice(l)
```

In [78]: `g()`

Out[78]: 'andreas'

In [69]: `3+5`

Out[69]: 8

In [71]: `5/2`

Out[71]: 2.5

In [72]: `2/5`

Out[72]: 0.4

In [74]: `6/3`

```
Out[74]: 2.0
```

```
In [75]: 5//2
```

```
Out[75]: 2
```

In [79]: 11%7

```
Out[79]: 4
```

```
In [81]: 2 ** 4
```

```
Out[81]: 16
```

In [1]:

```
In [80]: g()
```

```
Out[80]: 'rafaíl'
```

```
In [27]: # sdlfkghsdfgjhsdl kfjghsldkdfgn
```

```
In [82]: 'DFGHJK'
```

```
Out[82]: 'DFGHJK'
```

```
In [83]: 5+4
```

```
Out[83]: 9
```

```
In [84]: 'abc' + 'def'
```

```
Out[84]: 'abcdef'
```

```
In [85]: 'abc' * 10
```

```
Out[85]: 'abcabcabcabcabcabcabcabc'
```

```
In [86]: print ('sgsdg')
```

sgsdg

```
In [87]: len('sdfgsdfgsdfg')
```

```
Out[87]: 12
```

```
In [88]: g()
```

```
Out[88]: 'nikos'
```

```
In [89]: len('nikos' * 3)
```

```
Out[89]: 15
```

In [90]: `len('')`

Out[90]: 0

In [91]: `g()`

Out[91]: 'andreas'

In [92]: `len(' ')`

Out[92]: 1

In [94]: `g()`

Out[94]: 'katerina'

In [95]: `'abc' + 'def'`

Out[95]: 'abcdef'

In []:

In [96]: `'1' + '2'`

Out[96]: '12'

In [97]: `1+2`

Out[97]: 3

In [98]: `'fkghsdfg1932 4123418273648172365481726354'`

Out[98]: 'fkghsdfg1932 4123418273648172365481726354'

In [99]: `'fsd'`

Out[99]: 'fsd'

In [100... `"asdfsdf"`

Out[100]: 'asdfsdf'

In [101... `"H 'gata' tou Nikoy"`

Out[101]: "H 'gata' tou Nikoy"

In [103... `"Nick's cat"`

Out[103]: "Nick's cat"

In [104... `'Nick\'s cat'`

Out[104]: "Nick's cat"

In [105... `'asdfsdfasdfsdf νηγδδ φγηδ φγηδ γη δγφ 😊😊😊😊😊😊😊😊'`

Out[105]: 'asfdffasdfasd νηγδδ φγηδ φγηδ γη δγφ 🤔🤔🤔🤔🤔🤔🤔'

In [106... 🤔 = 'asdfasdf'

Input In [106]

🤔 = 'asdfasdf'
^

SyntaxError: invalid character '🤔' (U+1F60B)

In [107... φανταστική_μεταβλητή = 'asdfasdf'

In [109... φανταστική_μεταβλητή + 'sfgs'

Out[109]: 'asdfasdfsfgs'

In [110... 'sdfgsdfgsdfgssdfg'.count('s')

Out[110]: 5

In [111... 'adfasdfadf'.count('ad')

Out[111]: 2

In [112... len('dfasdfadf')

Out[112]: 9

In [114... 'alexandros'.index('x')

Out[114]: 3

In [113... g()

Out[113]: 'rafail'

In [115... 'xxxx'.count('xx')

Out[115]: 2

In [116... 'xxxx'.count('dfghd')

Out[116]: 0

In [117... 'xxxx'.index('dfghd')

ValueError

Traceback (most recent call las

Input In [117], in <cell line: 1>()

----> 1 'xxxx'.index('dfghd')

ValueError: substring not found

In [118... 'afgsadgsdfgs'.find('ttt')

Out[118]: -1

In [119... 'afgsadgsdfgs'.find('f')

Out[119]: 1

In [120... `'abcbcbcbc'.index('b')`

Out[120]: 1

In [121... `'abc' 'def'`

Out[121]: 'abcdef'

In [123... `'a', 'b' 'c'`

Out[123]: ('a', 'bc')

In [124... `a = 7`

In [125... `print (a)`

7

In [126... `a=7
b = 8`

`print (a+b)`

15

In [127... `age = 50`

In [128... `print ('My age is', age)`

My age is 50

In [131... `print ('My age is ' + str(age))`

My age is 50

In [132... `print ('My age is %s' % age)`

My age is 50

In [135... `print ('My age is {}'.format(age))`

My age is 50

In [136... `print (f'My age is {age}')`

My age is 50

In [139... `f'gfdhf {age} ghfghf'`

Out[139]: 'gfdhf 50 ghfghf'

In [140... `a=25298534986739485623985639856239845629384756239847562938475629387456293`

In [141... `a`

Out[141]: 252985349867394856239856398562398456293847562398475629384756293874562938
4765

In [144... `print (34**109)`

8534969187882877459682187255782720293344687321636289005205386726209084353
7661537867197058700970058601461194548823137984673121405399480355897151108
565704949045567422464

```
In [145... 1.345234523122345624523452345
```

```
Out[145]: 1.3452345231223457
```

```
In [146]: a = 1/3
```

In [147... a

```
Out[147]: 0.3333333333333333
```

```
In [148... a*3
```

```
Out[148]: 1.0
```

In [149... **b=3**

```
In [150]: 1/b + 1/b + 1/b
```

```
Out[150]: 1.0
```

In [151... a

```
Out[151]: 0.3333333333333333
```

[illegible]

```
In [157... import decimal
```

```
In [130... str(45356)
```

```
Out[130]: '45356'
```

```
In [159... a=3
           b=5
           c = 8
```

```
In [160]: a=3
          b = 3
```

Input In [160]

$$b = 3$$

^

IndentationError: unexpected indent

```
In [161... 'sdfgdfgd'.upper()
```

```
Out[161]: 'SDFGDFGD'
```

```
In [162... 'dASDFDfAsdfaSDfadsfasfd'.lower()
```

```
Out[162]: 'dasdfdfasdfasdfadsfasfd'
```

```
In [163... 'alexandros'.replace('a', '0')
```

```
Out[163]: '0lex0ndros'
```

```
In [164... 'alexandros'.replace('ale', '0')
```

```
Out[164]: '0xandros'
```

Indexing !

- item 1
- item 2

this is a [link](#)

```
In [165... 'Alexandros'.index('x')
```

```
Out[165]: 3
```

```
In [166... 'Alexandros'[3]
```

```
Out[166]: 'x'
```

```
In [167... 'Alexandros'[0]
```

```
Out[167]: 'A'
```

```
In [168... 'Alexandros'[100]
```

IndexError

Traceback (most recent call las

Input **In [168]**, in <cell line: 1>()

----> 1 'Alexandros'[100]

IndexError: string index out of range

```
In [174... 'Alexandros'[3:6]
```

```
Out[174]: 'xan'
```

```
In [176... 'Alexandros'[3:100]
```

```
Out[176]: 'xandros'
```

```
In [179... 'Alexandros'[3:]
```

```
Out[179]: 'xandros'
```

```
In [181... 'Alexandros'[0:5]
```

```
Out[181]: 'Alexa'
```

```
In [183... 'Alexandros'[:5]
```

```
Out[183]: 'Alexa'
```

```
In [190... 'Alexandros'[-3]
```

```
Out[190]: 'r'
```

```
In [192... 'Alexandros'[5:-1]
```

```
Out[192]: 'ndro'
```

```
In [193... -1//2
```

```
Out[193]: -1
```

```
In [194... -1//3
```

```
Out[194]: -1
```

```
In [196... 1//3
```

```
Out[196]: 0
```

```
In [197... -(1//3)
```

```
Out[197]: 0
```

```
In [ ]:
```

```
In [191... g()
```

```
Out[191]: 'elena'
```

```
In [ ]:
```

```
In [187... g()
```

```
Out[187]: 'agaph'
```

```
In [ ]:
```

```
In [175... g()
```

```
Out[175]: 'olympia'
```

```
In [172... 
```

```
Out[172]: 'aggelos'
```

```
In [198... a = 5
```

```
In [199... g()
```

```
Out[199]: 'andreas'
```



```
In [200... a = a + 1  
print (a)
```

6

```
In [201... a = 5 + 1
```

```
In [202... a = a + 1
```

```
In [204... a=0  
  
a = a + 1  
a = a + 1  
a = a + 1  
  
print (a)
```

3

```
In [206... a=0  
  
a +=1  
a +=1  
a +=1  
  
print (a)
```

3

```
In [207... a=0  
  
a -=1  
a -=1  
a -=1  
  
print (a)
```

-3

```
In [208... a=2  
  
a *=5  
a *=5  
a *=5  
  
print (a)
```

250

```
In [211... True + 1
```

Out[211]: 2

```
In [214... False * 10
```

Out[214]: 0

```
In [217... 3 > 5
```

Out[217]: False

In [219... `10 <= 10`

Out[219]: True

In [222... `11 >= 12`

Out[222]: False

In [226... `3<5<8`

Out[226]: True

In [227... `True+ True`

Out[227]: 2

In [228... `True and True`

Out[228]: True

In [229... `False and True`

Out[229]: False

In [230... `True and False`

Out[230]: False

In [231... `False and False`

Out[231]: False

In [232... `True or True`

Out[232]: True

In [233... `False or True`

Out[233]: True

In [234... `True or False`

Out[234]: True

In [235... `False or False`

Out[235]: False

In [236... `5 and 3`

Out[236]: 3

In [237... `5 or 3`

Out[237]: 5

```
bool('alexandros')
```

```
Out[238]: True
```

```
bool('')
```

```
Out[239]: False
```

```
bool(1234)
```

```
Out[240]: True
```

```
bool(0)
```

```
Out[241]: False
```

```
bool(11234.1341)
```

```
Out[242]: True
```

```
bool(0.0)
```

```
Out[243]: False
```

```
bool(0.000000000000000001)
```

```
Out[244]: True
```

[illegible]

```
Out[245]: True
```

[illegible]

Out[246]: 1e-65

5 or 3

```
Out[247]: 5
```

5 or 1/0

```
Out[248]: 5
```

```
0 or 0 or 5 or 1/0
```

```
Out[249]: 5
```

5 and 5 and 0 and 1/0

```
Out[250]: 0
```

5 and 5 and 0 and 23452345**2345234523452345

```
Out[251]: 0
```

In [252... `not True`

Out[252]: False

In [253... `not False`

Out[253]: True

In [254... `not 5`

Out[254]: False

In [255... `bool(True) ^ bool(True)`

Out[255]: False

In [256... `bool(4) ^ bool(7)`

Out[256]: False

In [257... `bool(4) ^ bool(0)`

Out[257]: True

In [258... `bool(0) ^ bool(0)`

Out[258]: False

In [224... `(3<4)`

Out[224]: True

In []:

In []:

In [220... `g()`

Out[220]: 'melina'

In []:

In [203... `g()`

Out[203]: 'elena'

In [259... `int(6.7)`

Out[259]: 6

In [261... `int('6')`

Out[261]: 6

In [262... `int(float('6.7'))`

Out[262]: 6

In [263... float(6)

Out[263]: 6.0

In [264... float('7.7')

Out[264]: 7.7

In [265... float(True)

Out[265]: 1.0

In [266... str(7+4)

Out[266]: '11'

In [267... bool('')

Out[267]: False

In [268... help(''.replace)

Help on built-in function replace:

replace(old, new, count=-1, /) method of builtins.str instance

Return a copy with all occurrences of substring old replaced by new.

count

Maximum number of occurrences to replace.

-1 (the default value) means replace all occurrences.

If the optional argument count is given, only the first count occurrences are replaced.

In [271... bool('ssdg sdfg')

Out[271]: True

In [272... bool(' ')

Out[272]: True

In []: