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Exercise: vara varb

Finger Exercises due Aug 5, 2020 20:30 -03 *Completo*

Exercise: vara varb

5.0/5.0 points (graded)

ESTIMATED TIME TO COMPLETE: 5 minutes

Assume that two variables, `varA` and `varB`, are assigned values, either numbers or strings.

Write a piece of Python code that evaluates `varA` and `varB`, and then prints out one of the following messages:

- `"string involved"` if either `varA` or `varB` are strings
- `"bigger"` if `varA` is larger than `varB`
- `"equal"` if `varA` is equal to `varB`
- `"smaller"` if `varA` is smaller than `varB`

Do not ask for user input

Assume that variables are defined for you by our grader code. Simply write code assuming you know the values of the variables.

```
1 if type(varA) == str or type(varB) == str:
2     print('string involved')
3 elif type(varA) == type(varB):
4     if varA > varB:
5         print('bigger')
```

```
6 elif varA == varB:
7     print('equal')
8 else:
9     print('smaller')
```

Press ESC then TAB or click outside of the code editor to exit

Correta

```
if type(varA) == str or type(varB) == str:
    print('string involved')
elif varA > varB:
    print('bigger')
elif varA == varB:
    print('equal')
else:
    # If none of the above conditions are true,
    # it must be the case that varA < varB
    print('smaller')
```

Test results

[Hide output](#)

CORRECT

Test Values: varA = 0, varB = goodbye

Output:

string involved

Test Values: varA = bonjour, varB = goodbye

Output:



string involved

Test Values: varA = 2, varB = -8

Output:

bigger

Test Values: varA = -8, varB = -2

Output:

smaller

Test Values: varA = -3, varB = 3

Output:

smaller

Test Values: varA = -1, varB = 4

Output:

smaller

Test Values: varA = hola, varB = goodbye

Output:



string involved

Test Values: varA = -9, varB = adios

Output:

string involved

Test Values: varA = hello, varB = hello

Output:

string involved

Test Values: varA = hello, varB = hello

Output:

string involved

Test Values: varA = 1, varB = 6

Output:

smaller

Test Values: varA = -7, varB = 7

Output:



smaller

Test Values: varA = -9, varB = -9

Output:

equal

Test Values: varA = 8, varB = -5

Output:

bigger

Test Values: varA = 1, varB = adieu

Output:

string involved

Test Values: varA = -8, varB = -1

Output:

smaller

Test Values: varA = 8, varB = -6

Output:



bigger

Test Values: varA = 2, varB = -1

Output:

bigger

Test Values: varA = -10, varB = -2

Output:

smaller

Test Values: varA = -9, varB = 7

Output:

smaller

[Hide output](#)

Explanation

Is `type(varA) == str or type(varB) == str` equivalent to

`type(varA) or type(varB) == str` ? Those are not equivalent because of Python precedence (some operations have higher precedence than others). The `==` has higher precedence than the `or` so it will get evaluated first. Therefore:

`type(varA) or type(varB) == str`

Will evaluate to the following, if we explicitly put parentheses:

`type(varA) or (type(varB) == str)`

`True or (type(varB) == str)`

`(True)`

Because "anything" or "True" will just take the value of "True" (by boolean algebra).

And the other expression:



```
type(varA) == str or type(varB) == str
```

Will evaluate to the following, if we explicitly put parentheses:

```
( type(varA) == str ) or ( type(varB) == str )
```

So you will have to check each of the expressions in the parentheses to see whether they are true or not to determine the final result. So these two are not equal.

Hint: Remember the `type` function?

Hint: Recall that if you want to check whether the type of a variable is a specific kind, you can compare the type of the variable to the type of a known object.

Enviar

i Answers are displayed within the problem










Exercise: vara varb

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Hello, I noticed that if (type(varA)==str) or (type(varB)==str) is deemed NOT the same as if type(va... 3

? Help, using and operator instead of or 2
if type(varA) == int and type(varB) == int: elif varA>varB: print('bigger') elif varA<varB: print("smalle...

💬 what am i missing? Please help 4
below is my code. varA = -5 varB = 6 if (type(varA)==str) or (type(varB)==str): print("string involved"...

💬 Great exercise 1
Took me a good while to ponder about this problem. Stayed stuck but the hints and tips really hel...

? Help! Unknown error =(2
This syntax error pop up.How do I resolve this error and what changes should I make? Test Value...

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