

Curso > Week 5... > 9. Class... > Exercis...

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Exercise: spell

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

Exercise: spell

9/9 points (graded)

ESTIMATED TIME TO COMPLETE: 12 minutes

Consider the following code:

https://courses.edx.org/courses/courses/course-v1:MITx+6.00.1x+2T2020/courseware/ccbeba1bc4464a0c9e3b2146aef7d4f3/37cb9a5012e443bbaa776a...

```
class Spell(object):
    def __init__(self, incantation, name):
        self.name = name
        self.incantation = incantation
    def __str__(self):
        return self.name + ' ' + self.incantation + '\n' + self.getDescription()
    def getDescription(self):
        return 'No description'
    def execute(self):
        print(self.incantation)
class Accio(Spell):
    def __init__(self):
        Spell.__init__(self, 'Accio', 'Summoning Charm')
class Confundo(Spell):
    def __init__(self):
        Spell.__init__(self, 'Confundo', 'Confundus Charm')
    def getDescription(self):
        return 'Causes the victim to become confused and befuddled.'
def studySpell(spell):
    print(spell)
spell = Accio()
spell.execute()
studySpell(spell)
studySpell(Confundo())
```

1. What are the parent class(es)? Note that the term "parent class" is interchangable with the term "superclass".



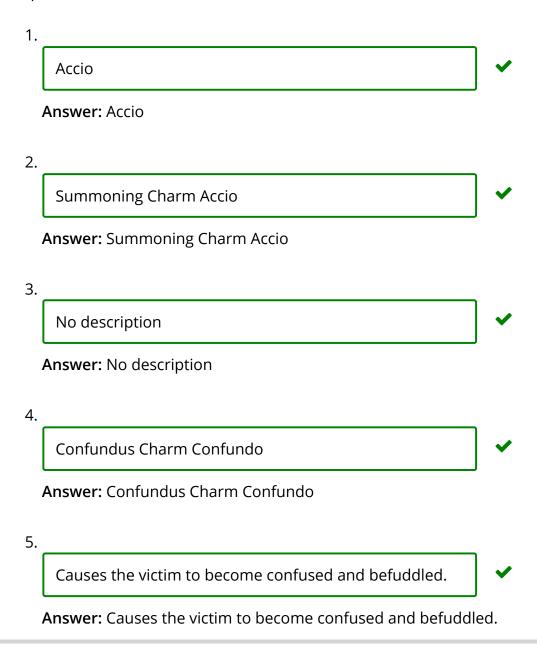
2. What are the child class(es)? Note that the term "child class" is interchangable with the term "subclass".

4.



3. What does the code print out? Try figuring it out in your head before you try running it in Python.

Hint: This code prints out 5 lines. Enter each line that is printed out in its own box, in sequential order.



Which [getDescription] method is called when [studySpell(Confundo())] is executed?

The getDescription method defined within the Spell class	
The getDescription method defined within the Accio class	
The getDescription method defined within the Confundo class	



Explanation:

The one inside the Confundo class is called. Why? Because methods in the child class override those in the parent class if they exist in both classes.

5. How do we need to modify Accio so that print(Accio()) will print the following description?

```
Summoning Charm Accio
This charm summons an object to the caster, potentially over a significant distance.
```

```
class Accio(Spell):
    def __init__(self):
        Spell.__init__(self, 'Accio', 'Summoning Charm')

def getDescription(self):
    return 'This charm summons an object to the caster, potentially over a si
```

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

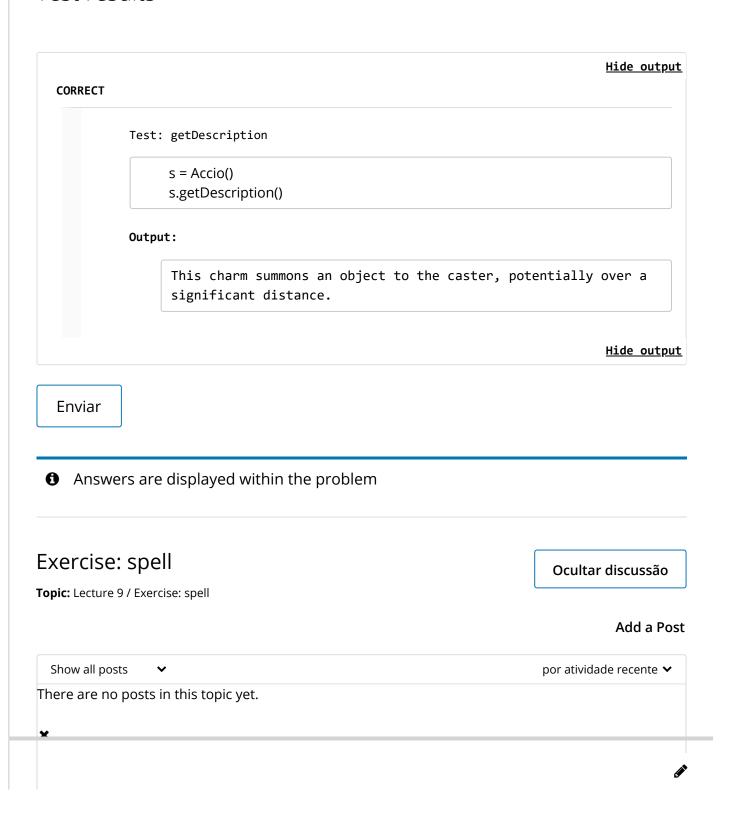
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```
class Accio(Spell):
    def __init__(self):
        Spell.__init__(self, 'Accio', 'Summoning Charm')

def getDescription(self):
    return 'This charm summons an object to the caster, potentially over a significant d:
```

Test results



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