

Sungyul Kim (username: skim588)**Attempt 1**

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Submission View

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Question 1**1.556 / 2 points**

```
class Person:
    def __init__(self):
        self.name = "Tim"
        self.program = "CIT"

    def say_hello(self):
        print("Hello!")

if __name__ == "__main__":
    tim = Person()
```

Select the correct answers below.

- ✓ ☐ program is a method.
- ✓ ☐ say_hello is an attribute (=variable).
- ➡ ✓ ☒ tim is an object.
- ➡ ✓ ☒ name is an attribute (= variable).
- ✓ ☐ tim is a class.
- ➡ ✓ ☒ say_hello is a method.
- ➡ ✓ ☒ Person is a class.
- ➡ ✗ ☐ Person is an object.
- ➡ ✓ ☒ program is an attribute (=variable).

Question 2**1 / 1 point**

What is the purpose of a decorator?

- ✓ ☒ A decorator changes the functionality of a function without changing the decorated function's code
- ☐ A decorator is a visual indicator to other developers that a portion of your code is critical and should not be changed
- ☐ Decorators are used to remove the self argument from methods
- ☐ A decorator is similar to a class and is used to achieve encapsulation

Question 3**1 / 1 point**

```
class Parent:  
    def __init__(self):  
        self.number = 10
```

```
class Child(Parent):  
    def __init__(self):  
        self.number = 40
```

```
instance = Child()
```

What is the value of instance.number ?

Answer: 40 ✓

Question 4**1 / 1 point**

```
class Parent:  
    def __init__(self):  
        self.number = 10
```

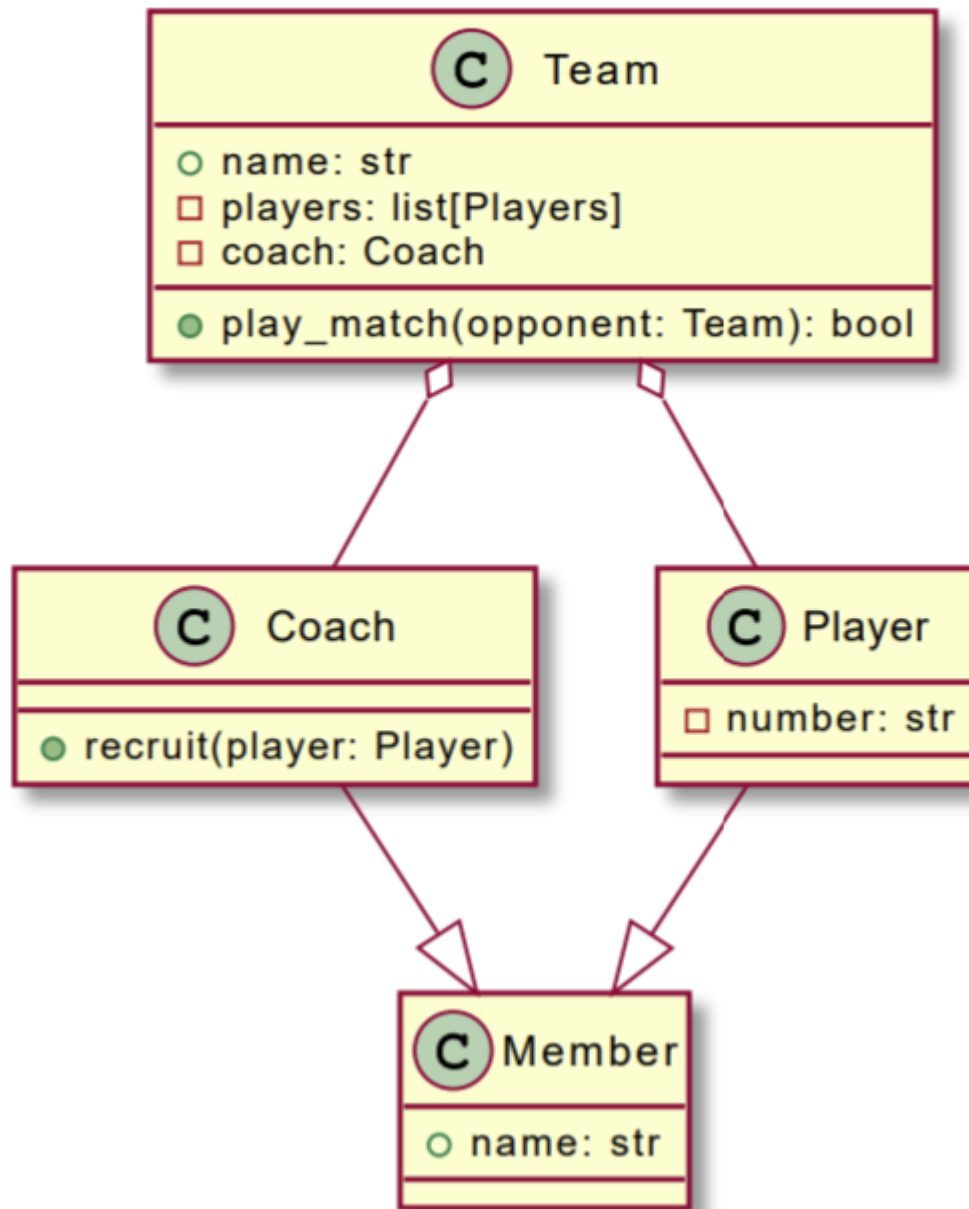
```
class Child(Parent):  
    def __init__(self):  
        self.number = 40  
        super().__init__()
```

```
instance = Child()
```

What is the value of instance.number ?

Answer: 10 ✓

Question 5**3 / 3 points**



Check all the correct sentences in the list below.

- ✓ ☐ there is a composition relationship between Player and Team
- ✓ ☐ the Member class does not have a constructor
- ✓ ☐ there is a aggregation relationship between Coach and Player
- ✓ ☒ the Player class has a "name" attribute
- ✓ ☒ there is an aggregation relationship between Coach and Team
- ✓ ☒ Coach and Player have the same parent class
- ✓ ☒ play_match can only return True or False

- ✓ ☐ there is an aggregation relationship between Member and Team
- ✓ ☐ The Player class inherit from the class Team

Question 6**0.5 / 1 point**

What is the purpose of the "self" keyword when defining or calling instance methods?

- ✓ ☐ self is just historic computer science jargon but it does not serve any purpose since everything is an object in Python
- ➔ ✓ ☒ self refers to the instance whose method was called
- ✗ ☒ self is used when no other arguments are required for the method
- ✓ ☐ self makes sure an instance of the parent class is created automatically

Question 7**1 / 1 point**

What does super() do?

- ☐ Allows you to use composition in a class
- ✓ ☒ Gives you access to methods and attributes of the parent class
- ☐ Allows you to use inheritance in a class
- ☐ Gives you super-Python-powers

Question 8**1.667 / 2 points**

I have the following class definition: 'class Truck(Automobile):' and the following instance: 'ford_f150 = Truck()'. Which of the following instructions will return True?

- ➔ ✓ ☒ type(ford_f150) == Truck
- ➔ ✓ ☒ isinstance(ford_f150, object)
- ➔ ✗ ☐ isinstance(ford_f150, Automobile)
- ✓ ☐ type(ford_f150) == 'Truck'
- ✓ ☐ type(ford_f150) == Automobile
- ➔ ✓ ☒ isinstance(ford_f150, Truck)

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Attempt Score:  10.7 / 12 - 89.36 %

Overall Grade (highest attempt):  10.7 / 12 - 89.36 %

Done