Q1. What is the difference between getattr and getattribute?

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main difference
__getattr__ :It is invoked after the default attribute lookup has failed, raising an AttributeError.
 __getattribute__ :It is invoked before the normal attribute lookup.
```

Q2. What is the difference between properties and descriptors?

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Properties:

Properties are accessed and modified using the dot notation (obj.attribute),providing a natural and intuitive syntax.
Properties are primarily used for encapsulating attribute access and adding validation or computation logic to
attribute accessors.

Descriptors:

Descriptors are typically assigned to class attributes, and they intercept attribute access and modification
at the class level.
Descriptors can provide custom behavior for attribute access, allowing you to define how the attribute is retrieved,
set, or deleted.
```

Q3. What are the key differences in functionality between getattr and getattribute, as well as properties and descriptors?

In [ ]:

```
__getattr__ is invoked only when the attribute is not found through the normal attribute lookup.
__getattribute__ is called for every attribute access, regardless of whether the attribute exists or not.

Properties are defined using the @property decorator, allowing you to define getter, setter, and deleter methods for an attribute.
Descriptors are defined by creating a class with __get__, __set__, or __delete__ methods.
They are typically assigned to class attributes and intercept attribute access and modification at the class level.
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