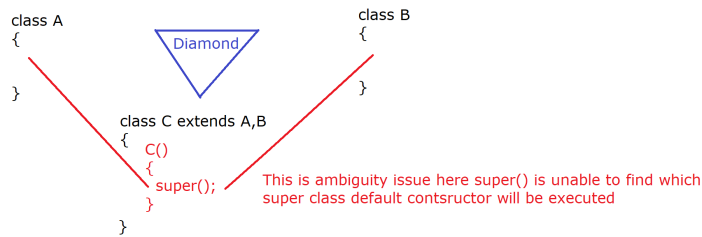


Why Java does not support Multiple Inheritance ?

* Multiple Inheritance is a situation where a sub class wants to inherit the properties of two or more super classes as shown in the Diagram :



Access Modifiers in java :

* An access modifier defines the accessibility level of the class OR the member of the class.

* In terms of accessibility we have 4 types of access modifiers in java :
[Order is important]

- 1) private (Within the same class)
- 2) default (Within the same package OR folder)
- 3) protected (From the same package OR from another package by using Inheritance)
- 4) public (No restriction)

private :

* It is the **most restrictive** access modifier because the member declared with private access modifier will be accessible from the same class only.

* We can't declare Outer classes with private and protected access modifier, Outer classes can be declared with **public, final, abstract, sealed and non-sealed** modifier

default :

If we don't write any kind of access modifier before the name of the class, name of the method and name of the field then by default the access modifier would be **default**

```
class Test
{
    int x = 100;
    void show()
    {
    }
}
```

Here class Test, field x and method show access modifier is default

* As far as it's accessibility is concerned, It is accessible within the same package only. We can't access default member outside of the package