

Choose a dynamically bound method. What method gets called now?
Change the dynamic type. What method gets called now?
Pick a statically bound method. Which one would be called in each of the two previous cases?

```
public class PowerUp : MonoBehaviour
{
    public virtual void ApplyEffect(GameObject player)
    {
        Debug.Log("PowerUp applied to " + player.name);
    }
}

public override void ApplyEffect(GameObject player)
{
    effect.Apply(player);
    Destroy(gameObject);
}
```

/4

Show me an example of reuse in your code where you violate copyright law.
How does it violate copyright? Regeneration Potion from Minecraft
What did you have to do to integrate it with the code you wrote? What are the legal implications if you market your code with the re-used portion? Use fair use argue that you can use this anyway.

/4



I used the regeneration potion from Minecraft as the sprite for my regeneration power up. If I was a prosecutor, I would argue that this potion is one of the most famous ones in the game and that it is a game mechanic that has been around and is easily recognizable. As a defense attorney I don't deem the potion to be an integral part of the game and there are other potions in the game that look extremely similar. I don't think it would hurt the potential marketing for Minecraft so I think I could argue that I have the write to use it.

4. One big or two small, well-chosen patterns.

Small Patterns = {Singleton, Private Class Data}

Which patterns did you choose?

1. Decorator

2. _____

Why did you choose each pattern? (Justify your use of it).

I chose this pattern because it is good for power-ups because it allows adding new behaviors or functionalities to objects dynamically.

Draw the class diagram for your pattern(s).



