

Northern Michigan University (Marquette Co, MI)
CS345-01-23W Android Programming (Andrew A. Poe)

Practice Quiz 6

Thursday 23 March 2023 1:00 P.M. EST

Time: 15 minutes

I have a class called SuperHero. There are inherited classes from it called Kryptonian, Speedster, and Detective.

The Kryptonian class contains a method: `fun UseXRayVision ()`

The Speedster class contains a method: `fun DashAroundTheWorld()`

The Detective class contains a method: `fun ExamineClues()`

Each of these methods are unique to their classes and none of them appear in the SuperHero class.

The SuperHero class does contain a method: `fun Practice ()`. This method tells each superhero to use its power 100 times in a row. Write the code for `Practice()` using good inheritance and overriding so that when called by a Kryptonian, it uses its x-ray vision 100 times in a row, and similarly for the other two. You should write as little repeated code as possible.

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Superhero:

```
fun Practice() {  
    for (i in 0..99)  
        Power();  
}
```

```
fun Power () {}
```

Speedster:

```
override fun Power() {DashAroundTheWorld() }
```

Detective:

```
override fun Power() {ExamineClues() }
```

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Kryptonian:

```
override fun Power() {UseXRayVision() }
```