

## ESE112 Inheritance Trivia

Assume that statement below compile and runs without errors:

```
> A data = new C();
```

1. What can we infer about relationship between A and C?
  
  
  
  
  
  
  
  
  
  
2. True or False: The above statement tells us that A must be a concrete class.
  
  
  
  
  
  
  
  
  
  
3. Assume B is a class that inherits from A. B has a method b() but C does not. C has a methods c() but B does not. Consider the following:

```
> A data = new C();
```

For the following interaction answer **yes or no** if the code compiles with error. If it compiles does it have run-time/semantic errors. Explain.

```
> ((C)data).c();
```

```
> ((B)data).b();
```