Generics with Wildcards

- In generic code, the question mark (?), called the wildcard, represents an unknown type.
- ? is super than Object class
- The wildcard is never used as a type in class or interface declaration.

```
Don't do class A<?> { }

If there is class A<T> { }

then you can create object with unknown type A<?> a = new A<className>
```

Unbounded wildcard parameterized type

ArrayList<?> list = new ArrayList<Long>();

Later you can assign any other object to wildcarded reference variable list = new ArrayList<Integer>();

Upper bounded wildcards

ArrayList<? extends Number> list = new ArrayList<Long>();

You can assign any other object with type which is subclass of Number

list = new ArrayList<Integer>();

Lower bounded wildcards

ArrayList<? super Integer> list = new ArrayList<Number>();

You can assign any other object with type which is superclass of Integer.

list = new ArrayList<Object>();