Organization, Collections, and RTTI

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- Starting at 14:02
  - You will have 5 minutes
  - You may not use your notes, books, lectures, or the internet
  - You may not help each other

Passcode

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Practicum

1. Construct a new Gradle Project name it what ever you like, and use the Java Application settings.
- For the Package select `cs.isu.edu.cs2263.practicum12`

2. Next create a module with the same name as the base package, which will export the base package.

3. Create an interface called `Deque` in the base package, with the following definition:

```java
package cs.isu.edu.cs2263.practicum12;
import java.util.*;
public interface Deque {
    boolean addAtTail(Object value);
    Object removeElementAtTail();
    Object getElementAtTail();
    boolean addAtHead(Object value);
    Object removeElementAtHead();
    Object getElementAtHead();
    int size();
    void clear();
    Iterator iterator();
}
```

4. Create a class to implement this interface using a `java.util.LinkedList` as the basis. Implement some tests in your `App` class to verify it works correctly.

5. Update both the implementation and the interface to be Generic classes, then update the tests `App`