

Task 1: Generics and Type Safety

Create a generic Pair class that holds two objects of different types, and write a method to return a reversed version of the pair.

```
package Day19;

public class Task1<T, U> {
    private T first;
    private U second;

    public Task1(T first, U second) {
        this.first = first;
        this.second = second;
    }

    public T getFirst() {
        return first;
    }

    public void setFirst(T first) {
        this.first = first;
    }

    public U getSecond() {
        return second;
    }

    public void setSecond(U second) {
        this.second = second;
    }

    public Task1<U, T> reverse() {
        return new Task1<>(second, first);
    }

    @Override
    public String toString() {
        return "Task1{" +
            "first=" + first +
            ", second=" + second +
            '}';
    }

    public static void main(String[] args) {
        Task1<Integer, String> pair = new Task1<>(1, "One");
        System.out.println("Original Pair: " + pair);
        Task1<String, Integer> reversedPair = pair.reverse();
        System.out.println("Reversed Pair: " + reversedPair);
    }
}
```

Form.java web2.xml javascript.js Task4.java KnightsTourA... RatInMaze.java Task1.java

```
1 package Day19;
2
3 public class Task1<T, U> {
4     private T first;
5     private U second;
6
7     public Task1(T first, U second) {
8         this.first = first;
9         this.second = second;
10    }
11
12    public T getFirst() {
13        return first;
14    }
15
16    public void setFirst(T first) {
17        this.first = first;
18    }
19
20    public U getSecond() {
21        return second;
22    }
23
24    public void setSecond(U second) {
25        this.second = second;
26    }
27
28    public Task1<U, T> reverse() {
29        return new Task1<>(second, first);
30    }
31}
```

Outline

- Day19
 - Task1<T, U>
 - first : T
 - second : U
 - Task1(T, U)
 - getFirst() : T
 - setFirst(T) : void
 - getSecond() : U
 - setSecond(U) : void
 - reverse() : Task1<U, T>
 - toString() : String
 - main(String[]) : void

Markers Properties Terminal Console Coverage

<terminated> Task1 [Java Application] C:\Users\Nikita\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_16.0.2.v20210721-1149\jre\bin\javaw.exe (Jun 5, 2024, 10:17:05 AM - 10:17:07 AM)

Original Pair: Task1{first=1, second=One}
Reversed Pair: Task1{first=One, second=1}