Hashmap

```
import java.util.Map;
import java.util.HashMap;
import java.util.Map.Entry;
class Student {
  public static Map<String, Double> findMaxMinScorers(Map<String, Double> studentMarks)
{
    Map<String, Double> result = new HashMap<>();
    if (studentMarks == null || studentMarks.isEmpty()) {
      return result; // Return an empty map if input is null or empty
    }
    // Initialize variables to store max and min marks
    double maxMarks = Double.MIN VALUE;
    double minMarks = Double.MAX VALUE;
    // First, find the max and min marks
    for (double marks : studentMarks.values())
       { if (marks > maxMarks) {
         maxMarks = marks;
       }
       if (marks < minMarks)
         { minMarks = marks;
       }
```

```
for (Entry<String, Double> entry : studentMarks.entrySet())
       { if (entry.getValue() == maxMarks) {
         result.put(entry.getKey() + " (Max)", entry.getValue());
       }
    // Add students with min marks to the result
     for (Entry<String, Double> entry : studentMarks.entrySet())
       { if (entry.getValue() == minMarks) {
         result.put(entry.getKey() + " (Min)", entry.getValue());
     return result;
}
class Tester {
  public static void main(String args[]) {
    Map<String, Double> studentMarks = new HashMap<>();
    studentMarks.put("Lily", 90.0);
    studentMarks.put("Robin", 68.0);
     studentMarks.put("Marshall", 76.5);
```

// Add students with max marks to the result

Details of Top Scorers & Low Scorers

Neil (Min) -- 67.0 Ted (Max) -- 92.0