Lösung 1

Tobias Lahmann, Christian van Onzenoodt

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- 1. Klassendiagramm ist unter solution/one/classDiagramm.png.
- 2. Antwort auf die Frage: compareTo() ist eine default implementierung innerhalb eines Interface. Das ist seit Java8 möglich. Das default Schlüsselwort signalisiert das.

Renderable.java

```
@Override
public default int compareTo(Renderable other) {
   if (this.getZindex() < other.getZindex()) {</pre>
     return -1;
   } else if (this.getZindex() > other.getZindex()) {
     return 1;
   return 0;
}
Input.java
@Override
public void keyPressed(KeyEvent event) {
  switch (event.getKeyCode()) {
    case KeyEvent.VK_UP:
      buttonsPressed[Button.UP.ordinal()] = true;
      break;
    case KeyEvent.VK_DOWN:
      buttonsPressed[Button.DOWN.ordinal()] = true;
      break;
    case KeyEvent.VK_LEFT:
      buttonsPressed[Button.LEFT.ordinal()] = true;
      break;
    case KeyEvent.VK_RIGHT:
      buttonsPressed[Button.RIGHT.ordinal()] = true;
      break;
    case KeyEvent.VK SPACE:
      buttonsPressed[Button.SPACE.ordinal()] = true;
```

```
break;
    default:
      break;
}
@Override
public void keyReleased(KeyEvent event) {
  switch (event.getKeyCode()) {
    case KeyEvent.VK_UP:
      buttonsPressed[Button.UP.ordinal()] = false;
      break;
    case KeyEvent.VK_DOWN:
      buttonsPressed[Button.DOWN.ordinal()] = false;
    case KeyEvent.VK_LEFT:
      buttonsPressed[Button.LEFT.ordinal()] = false;
      break;
    case KeyEvent.VK_RIGHT:
      buttonsPressed[Button.RIGHT.ordinal()] = false;
      break;
    case KeyEvent.VK_SPACE:
      buttonsPressed[Button.SPACE.ordinal()] = false;
      break;
    default:
      break;
}
Button.java
public enum Button {
  UP, DOWN, LEFT, RIGHT, SPACE
GameLogic.java
if (input.buttonsPressed[Button.SPACE.ordinal()]) {
  projectileSpawner.spawn(playerPosition);
```