

Problem_1_setWarnings.java

```
1  package Code;
2
3  public class Problem_1_setWarnings {
4
5      private boolean brakes,redLight,yellowLight,greenLight,buzzer;
6
7      public void setWarnings (double distance) {
8          redLight=yellowLight=greenLight=buzzer=brakes=false;
9          if (distance >= 200.0)
10             greenLight=true;
11         else
12             if (distance > 75.0)
13                 yellowLight=true;
14             else
15                 if (distance >= 25.0) {
16                     redLight=true;
17                     yellowLight=true;}
18             else {
19                 brakes=true;
20                 redLight=true;
21                 yellowLight=true;
22                 buzzer=true;}
23         }
24
25     public boolean isBrakes() {
26         return brakes;
27     }
28
29     public void setBrakes(boolean brakes) {
30         this.brakes = brakes;
31     }
32
33     public boolean isRedLight() {
34         return redLight;
35     }
36
37     public void setRedLight(boolean redLight) {
38         this.redLight = redLight;
39     }
```

```

40
41     public boolean isYellowLight() {
42 1     return yellowLight;
43     }
44
45     public void setYellowLight(boolean yellowLight) {
46 1     this.yellowLight = yellowLight;
47     }
48
49     public boolean isGreenLight() {
50 1     return greenLight;
51     }
52
53     public void setGreenLight(boolean greenLight) {
54 1     this.greenLight = greenLight;
55     }
56
57     public boolean isBuzzer() {
58 1     return buzzer;
59     }
60
61     public void setBuzzer(boolean buzzer) {
62 1     this.buzzer = buzzer;
63     }
64
65 }

```

Mutations

1. Substituted 0 with 1 → KILLED

2. Removed assignment to member variable brakes → SURVIVED

3. Removed assignment to member variable buzzer → SURVIVED

4. Removed assignment to member variable greenLight → SURVIVED

5. Removed assignment to member variable yellowLight → SURVIVED

6. Removed assignment to member variable redLight → SURVIVED

1. changed conditional boundary → KILLED

2. Substituted 200.0 with 1.0 → KILLED

3. negated conditional → KILLED

4. removed conditional - replaced comparison check with false → KILLED

5. removed conditional - replaced comparison check with true → KILLED

1. Substituted 1 with 0 → KILLED

2. Removed assignment to member variable greenLight → KILLED

1. changed conditional boundary → KILLED

2. Substituted 75.0 with 1.0 → KILLED

3. negated conditional → KILLED

	4. removed conditional - replaced comparison check with false → KILLED
	5. removed conditional - replaced comparison check with true → KILLED
13	1. Substituted 1 with 0 → KILLED
	2. Removed assignment to member variable yellowLight → KILLED
	1. changed conditional boundary → KILLED
	2. Substituted 25.0 with 1.0 → KILLED
15	3. negated conditional → KILLED
	4. removed conditional - replaced comparison check with false → KILLED
	5. removed conditional - replaced comparison check with true → KILLED
16	1. Substituted 1 with 0 → KILLED
	2. Removed assignment to member variable redLight → KILLED
17	1. Substituted 1 with 0 → KILLED
	2. Removed assignment to member variable yellowLight → KILLED
19	1. Substituted 1 with 0 → KILLED
	2. Removed assignment to member variable brakes → KILLED
20	1. Substituted 1 with 0 → KILLED
	2. Removed assignment to member variable redLight → KILLED
21	1. Substituted 1 with 0 → KILLED
	2. Removed assignment to member variable yellowLight → KILLED
22	1. Substituted 1 with 0 → KILLED
	2. Removed assignment to member variable buzzer → KILLED
26	1. replaced return of integer sized value with (x == 0 ? 1 : 0) → KILLED
30	1. Removed assignment to member variable brakes → NO_COVERAGE
34	1. replaced return of integer sized value with (x == 0 ? 1 : 0) → KILLED
38	1. Removed assignment to member variable redLight → NO_COVERAGE
42	1. replaced return of integer sized value with (x == 0 ? 1 : 0) → KILLED
46	1. Removed assignment to member variable yellowLight → NO_COVERAGE
50	1. replaced return of integer sized value with (x == 0 ? 1 : 0) → KILLED
54	1. Removed assignment to member variable greenLight → NO_COVERAGE
58	1. replaced return of integer sized value with (x == 0 ? 1 : 0) → KILLED
62	1. Removed assignment to member variable buzzer → NO_COVERAGE

Active mutators

- RETURN_VALS_MUTATOR
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_61
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_60
- CONDITIONALS_BOUNDARY_MUTATOR
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_56
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_55
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_58
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_57
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_52
- VOID_METHOD_CALL_MUTATOR
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_51
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_54
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_53
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_59
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_50

- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_45
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_44
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_47
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_46
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_41
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_40
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_43
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_42
- NEGATE_CONDITIONALS_MUTATOR
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_49
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_48
- INLINE_CONSTANT_MUTATOR
- CONSTRUCTOR_CALL_MUTATOR
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_34
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_33
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_36
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_35
- EXPERIMENTAL_MEMBER_VARIABLE_MUTATOR
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_30
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_32
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_31
- REMOVE_CONDITIONALS_ORDER_ELSE_MUTATOR
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_38
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_37
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_39
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_3
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_2
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_1
- INVERT_NEGS_MUTATOR
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_0
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_23
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_22
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_25
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_9
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_24
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_8
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_7
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_6
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_21
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_5
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_20
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_4
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_27
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_26
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_29
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_28
- REMOVE_INCREMENTS_MUTATOR
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_12
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_11
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_99
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_14
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_13
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_96
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_95
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_10
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_98
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_97
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_19
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_16
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_15
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_18

- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_17
- EXPERIMENTAL_SWITCH_MUTATOR
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_92
- ARGUMENT_PROPAGATION_MUTATOR
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_91
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_94
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_93
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_90
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_89
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_88
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_85
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_84
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_87
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_86
- MATH_MUTATOR
- NON_VOID_METHOD_CALL_MUTATOR
- REMOVE_CONDITIONALS_EQUAL_IF_MUTATOR
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_81
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_80
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_83
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_82
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_78
- REMOVE_CONDITIONALS_EQUAL_ELSE_MUTATOR
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_77
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_79
- INCREMENTS_MUTATOR
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_74
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_73
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_76
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_75
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_70
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_72
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_71
- REMOVE_CONDITIONALS_ORDER_IF_MUTATOR
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_67
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_66
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_69
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_68
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_63
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_62
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_65
- EXPERIMENTAL_REMOVE_SWITCH_MUTATOR_64

Tests examined

- Code.Problem_1_setWarningsTests.Code.Problem_1_setWarningsTests (47 ms)

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