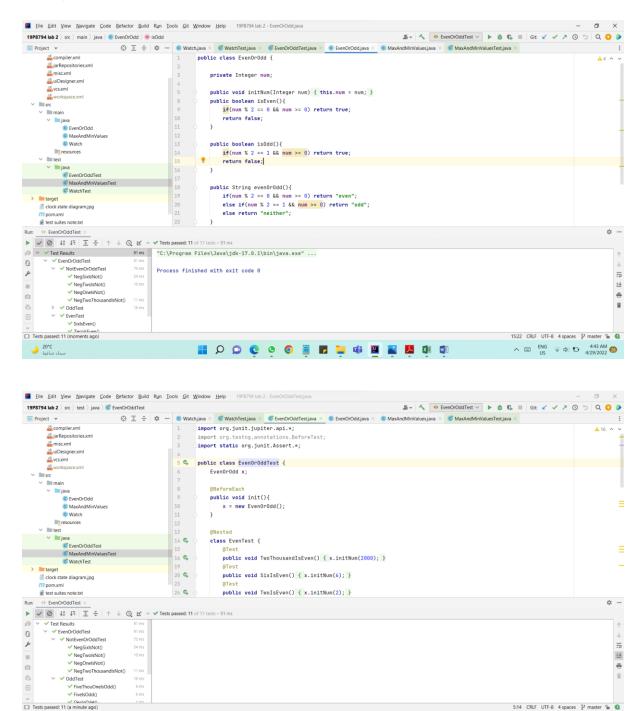
CSE338 LAB 2 REPORT

Screenshots

Q1 a)



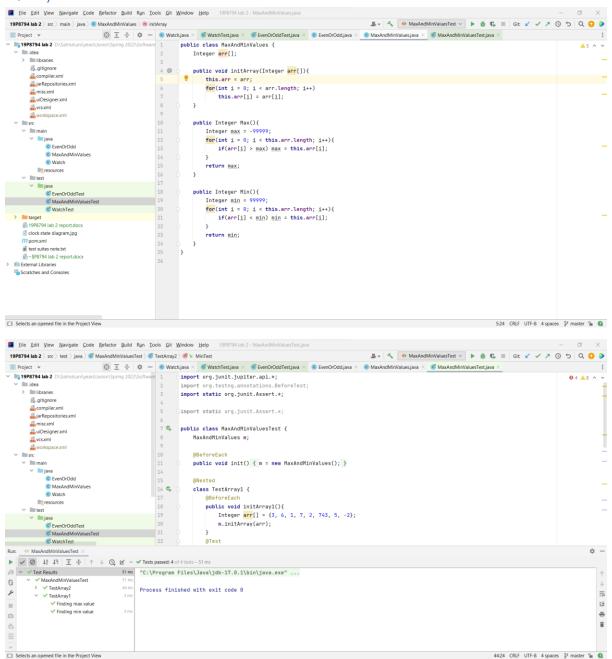
```
■ File Edit View Navigate Code Refactor Build Run Iools Git Window Help 19P8794 lab 2 - EvenO
                                                                                                                                         19P8794 lab 2 \rangle src \rangle test \rangle java \rangle \textcircled{e} EvenOrOddTest
                                 ⊕ 😇 😤 💠 — © Watch,java × © WatchTest,java × © EvenOrOddTest,java × © EvenOrOdd,java × © MaxAndMir
  19P8794 lab 2 D:\Sa
                                                      e 14 😘
                                                                   class EvenTest {
                                                      15
16 %
                                                                        public void TwoThousandIsEven() { x.initNum(2000); }
        libraries

.gitignore
.compiler.xml
.ajarRepositories.xml
.misc.xml
.uiDesigner.xml
                                                      28 😘
                                                                        public void SixIsEven() { x.initNum(6); }
                                                      24 😘
                                                                        public void TwoIsEven() { x.initNum(2); }
                                                      27
28 %
         a vcs.xml
                                                                        public void ZeroIsEven() { x.initNum(0); }
                                                                        @AfterFach
        java
© EvenOrOdd
© MaxAndMin
© Watch
                                                                        public void TestEven(){
                                                                            assertEquals(x.isEven(), actual: true);
assertEquals(x.isOdd(), actual: felse);
assertEquals(x.evenOrOdd(), actual: "even");
41 %
              © WatchTest
                                                                   class OddTest {
  42
43 $
                                                                        public void FiveThouOneIsOdd() { x.initNum(5001); }
                                                      46
47 $
59
51 $
                                                                        public void FiveIsOdd() { x.initNum(5); }
                                                                        public void OneIsOdd() { x.initNum(1); }
                                                                       @AfterEach
public void TestNotEvenOrOdd(){
                                                                            assertEquals(x.isEven(), actual: false);
assertEquals(x.isOdd(), actual: true);
assertEquals(x.evenOrOdd(), actual: "odd");
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■ Elle Edit View Navigate Code Refactor Build Run Iools Git Window Help 19P8794 lab 2 - EvenOrOddTest,java
 19P8794 lab 2 ) src 〉 test 〉 java 〉 🎳 EvenOrOddTest ) 💣 NotEvenOrOddTest
                                                                                                                                         🕃 🖫 🛊 — 🏽 Watchjava × 📽 Watchfestjava × 📽 EvenOrOddfestjava × 🔞 EvenOrOddjava × 🚷 BaxAndMinValuesjava × 📽 MaxAndMinValuesfestjava ×
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     idea

idea

ilibraries
                                                                        public void TestNotEvenOrOdd(){
        assertEquals(x.isEven(), actual: false);
assertEquals(x.isOdd(), actual: true);
assertEquals(x.evenOrOdd(), actual: "edd");
                                                      57
58
59
68
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62
63
64 %
                                                                   class NotEvenOrOddTest {
        65
66 $
                                                                        public void NegTwoThousandIsNot() { x.initNum(-2000); }
                                                      69
78 $
              Watch
                                                                        public void NegSixIsNot() { x.initNum(-6); }
                                                                        public void NegTwoIsNot() { x.initNum(-2); }
                                                    78 $
                                                                        public void NegOneIsNot() { x.initNum(-1); }
             © WatchTest
                                                                        @AfterEach
                                                                        public void TestNotEvenOrOdd(){
    assertEquals(x.isEven(), actual false);
    assertEquals(x.isOdd(), actual false);
      d clock state diagram.jpg
   et test suites note.bxt
                                                                             assertEquals(x.evenOrOdd(), actual "neither");
                                                                   public void cleanUp() { x = null; }
☐ Tests passed: 11 (2 minutes ago)
                                                                                                                                                               64:28 CRLF UTF-8 4 spaces 12 master 😘 🚺
```

Q1 b)



```
☐ File Edit View Navigate Code Refactor Build Run Iools Git Window Help 19P8794 lab 2 - MaxAndMin
  19P8794 lab 2 ⟩ src ⟩ test ⟩ java ⟩ ் MaxAndMinValuesTest ⟩ ் TestArray2 ⟩ ் MinTest
                                                                                                                                                       ♣ ✓ ✓ MaxAndMinValuesTest ✓ ▶ # $ $ II Git: ✓ ✓ ७ 5 Q 6 >
                                     ⊕ 🗵 🖫 💠 — 🍩 Watch.java × 📽 WatchTest.java × 📽 EvenOrOddTest.java × 📽 EvenOrOdd.java × 📽 MaxAndMinValues.java × 📽 MaxAndMinValues.Test.java ×
  19P8794 lab 2 D:\Sal
                                                                                  public void initArray1(){
                                                                                       Integer arr[] = {3, 6, 1, 7, 2, 743, 5, -2};
          libraries

.gitignore
.compiler.xml
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.misc.xml
.uiDesigner.xml
                                                                                  @Test
                                                              22
23
24 G, 27
28
29 G, 3
                                                                                  @DisplayName("Finding min value")
public void MinTest() { assertEquals(m.Min(), new Integer( value: -2)); }
          a vcs.xml
                                                                                   @Test
          workspace.xml
                                                                                  @DisplayName("Finding max value")
public void MaxTest() { assertEquals(m.Max(), new Integer( value: 743)); }
         java
© EvenOrOdd
© MaxAndMinV
© Watch
                                                              34
35 $
                                                                             @Nested
class TestArray2 {
                                                                                   public void initArray2(){
    Integer arr[] = {19,324,9,0,345};
                                                                                      m.initArray(arr);
© MaxAndMinValuesTest
© WatchTest

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77 pom.xml

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© Scratches and Consoles
                © WatchTest
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                                                                                   @DisplayName("Finding min value")
                                                                         public void MinTest() { assertEquals(m.Min(), new Integer( value: θ)); }
                                                                                   @DisplayName("Finding max value")
                                                               48 % 51 52
                                                                                  public void MaxTest() { assertEquals(m.Max(), new Integer( value: 345)); }
                                                                             public void cleanup() { m = null; }
☐ Selects an opened file in the Project View
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```

Q2)

```
Eile Edit View Navigate Code Refactor Build Run Iools Git Window Help 19P8794 lab 2 - Watch Java
                                                                                                                                                  19P8794 lab 2 > src > main > java > © Watch
                                    ② ₹ † □ © Watchjava × © WatchTestjava × © EvenOrOddTestjava × © EvenOrOddjava × © MaxAndMinValuesjava × © MaxAndMinValuesJava ×
                                                                   public class Watch {
   19P8794 lab 2 DA
                                                                       private String state, state1;
private Integer m, h, D, M, Y;
      idea

libraries
          .gitignore
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compiler.xml
jarRepositories.xml
iiipsigner.xml
uiDesigner.xml
ves.xml
workspace.xml
                                                                       public void setNull(){
                                                                            state = null; state = null;

m = null; h = null; D = null; H = null; Y = null;
                                                          8
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                                                                      public void setState(String state) {
                                                                            this.state = state;
               © EvenOrOdd
               MaxAndMinValues
                                                                      public void setState1(String state1) {
               Watch
■ resource

■ java

© EvenOrOddTest

© MacAndMinValuesTest

© WatchTest
                                                                            this.state1 = state1;
                                                                      public void setm(Integer m) {
                                                          18
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       $19P8794 lab 2 report.docx
                                                                       public void seth(Integer h){
       clock state diagram.jpg
   public void setY(Integer Y) {
                                                                           this.Y = Y;
                                                                       public void setM(Integer M) {
                                                                       this.M = M;
☐ Tests passed: 4 (2 minutes ago)
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```

```
■ Eile Edit Yiew Navigate Code Refactor Build Run Iools Git Window Help 19P8794 lab 2 - Watch,
                                                                                                                                                                                                                                                                                                                                                                                                                                  19P8794 lab 2 > src > main > java > @ Watch
                                                                                                    ③ 豆 ∵ □ ♥ - © Watch,java × © Watch,java × © EvenOrOddTest,java × © EvenOrOddJeva × © MaxAndMinValues,java × © MaxAndMinValues,java × © MaxAndMinValues,java × 0 MaxAndM
        19P8794 lab 2 DAS
                                                                                                                                                                                                           public void setD(Integer D) {
   this.D = D;
                           libraries

.gitignore
.compiler.xml
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.misc.xml
.uiDesigner.xml
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                                                                                                                                                                                                            public String getState() {
                                                                                                                                                                                                          return state;
                            a vcs.xml
                                                                                                                                                                                                          public String getState1() {
                            workspace.xml
                                                                                                                                                                                                        return state1;
                           java
© EvenOrOdd
© MaxAndMinV
© Watch
                                                                                                                                                                                                           public Integer getm() {
                                                                                                                                                                                                         return m;
                                                                                                                                                                                                           public Integer geth() {
  © MaxAndMinValuesTest
 © WatchTest

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⟨ clock state diagram.jpg

// pom.xml

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> Illi External Libraries

⟨ Scratches and Consoles
                                           © WatchTest
                                                                                                                                                                      53
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65
                                                                                                                                                                                                           public Integer getY() {
                                                                                                                                                                                                        return Y;
                                                                                                                                                                                                          public Integer getM(){
                                                                                                                                                                                                          return M;
                                                                                                                                                                                                           public Integer getD() {
                                                                                                                                                                                                          return D;
 ☐ Tests passed: 4 (2 minutes ago)
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■ File Edit View Navigate Code Refactor Ruild Run Tools Git Window Help 1998794 lab 2 - War

1998794 lab 2 - 
      19P8794 lab 2 
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angle java 
angle © Watch
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         19P8794 lab 2 DA
                                                                                                                                                                                                            public Watch(){
                                                                                                                                                                                                                         lic Watch(){
  setState("NORMAL");
  setState1("TIME");
                 > libraries
                                                                                                                                                                       68
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                          Jitiraries
Jitignore
Compiler.xml
JiarRepositories.xml
misc.xml
uiDesigner.xml
vcs.xml
                                                                                                                                                                                                                          setm(0); seth(0); setD(1); setM(1); setY(2000);
                                                                                                                                                                                                           public void takeInput(char letter){
                                                                                                                                                                                                                         switch(state){
                                                                                                                                                                                                                                                  if(letter == 'c'){
    state = "UPDATE";
                         © EvenOrOdd
                                                                                                                                                                                                                                                                 state1 = "MIN";
                                                                                                                                                                                                                                                    if(letter == 'b'){
                                           © Watch
■ Watch
■ resources

■ test

■ java
■ EvenOrOddTest
■ MaxAndMinValuesTest
■ WatchTest
                                                                                                                                                                                                                                                               state = "ALARM";
state1 = "ALARM";
                                                                                                                                                                                                                                                    if(letter == 'a') {
                                                                                                                                                                                                                                                          if(state1.equals("TIME")) state1 = "DATE";
else state1 = "TIME";
                    19P8794 lab 2 report.docx
                                                                                                                                                                                                                                      case "UPDATE":
                     clock state diagram.jpg
                                                                                                                                                                                                                                                  if(letter == 'd'){
    state = "NORMAL";
        © clock state diagram.jpg

| pom.xml
| test suites note.bxt
| -$P8794 lab 2 report.docx
| lili External Libraries
| Scratches and Consoles
                                                                                                                                                                                                                                                                 state1 = "TIME";
                                                                                                                                                                                                                                                    if(letter == 'a') {
                                                                                                                                                                                                                                                                 if(state1.equals("HIN")) state1 = "HOUR";
else if (state1.equals("HOUR")) state1 = "DAY";
else if (state1.equals("DAY")) state1 = "MONTH";
                                                                                                                                                                                                                                                                   else if (state1.equals("MONTH")) state1 = "YEAR";
                                                                                                                                                                                                                                                                   else if (state1.equals("YEAR")){
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```

```
■ Eile Edit Yiew Navigate Code Refactor Build Run Iools Git Window Help 19P87941ab 2 - Watch.java
                                                                                                                                                                                  19P8794 lab 2 > src > main > java > @ Watch
                                            19P8794 lab 2 DAS
                                                                                                              else if (state1.equals("MONTH")) state1 = "YEAR";
else if (state1.equals("YEAR")){
                                                                                                                   state = "NORMAL";
state1 = "TIME";
           libraries

.gitignore
.compiler.xml
.ajarRepositories.xml
.misc.xml
.uiDesigner.xml
                                                                                                        if(letter == 'b') {
                                                                                                             a vcs.xml
           workspace.xml
           java
© EvenOrOdd
© MaxAndMin
© Watch
                                                                                                                   else Y++;
                                                                                                 case "ALARM":
                                                                                                       if(letter == 'a'){
   if(state1.equals("ALARM")) state1 = "CHIME";
@ MaxAndMinValuesTest
  © WatchTest

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# 1998794 lab 2 report.docx

@ clock state diagram.jpg

// 17 pom.xml

# test suites note.but

# 5-$98794 lab 2 report.docx

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© Scratches and Consoles
                  © WatchTest
                                                                                                         if(letter == 'd'){
                                                                                                            state = "NORMAL";
state1 = "TIME";
                                                                    119
120
121
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127
                                                                                      public void displayDate() {
                                                                                            System.out.println(Y + "-" + M + "-" + D);
☐ Tests passed: 4 (3 minutes ago)
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■ File Edit View Navigate Code Refactor Build Run Iools Git Window Help 19P8794 lab 2 - Watch.java
  19P8794 lab 2 
angle src 
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                                                                                                                                                                                  ⊕ 📱 🛪 🗘 — 🔹 Watch,java × 📽 WatchTest,java × 📽 EvenOrOddTest,java × 📽 EvenOrOddjava × 📽 MaxAndMinValues,java × 📽 MaxAndMinValuesTest,java ×
   19P8794 lab 2 D
                                                                                      public void displayDate() {
    System.out.println(Y + "-" + M + "-" + D);
      > libraries
          Jitiraries
Jitignore
Compiler.xml
JiarRepositories.xml
misc.xml
uiDesigner.xml
vcs.xml
                                                                                      public void displayTime() {
                                                                                            System.out.println(h + ":" + m);
                                                                    131
132
133
134
135
136
137
138
139
                                                                                     set state= NORMAL:
                                                                                      set state1=TIME;
set m=0,h=0, D=1,M=1, Y=2000.
For each input do
                                                                                      ror each input as
switch(state)

Case NORMAL:{

If (input ==c) state=UPDATE

If (input ==b) state=ALARN

If (input ==a)

If (state1==IINE)
           ∨ ijava
                 © EvenOrOdd
© MaxAndMinValues
                  Watch
                                                                                           state1=DATE
                                                                                           state1=TIME
                  © WatchTest
                                                                    144
145
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149
                                                                                      Case UPDATE: ..
        19P8794 lab 2 report.docx
        clock state diagram.jpg
   Clock state diagram.jpg
Try pom.xml

test suites note.txt

-$P8794 lab 2 report.docx

Illi External Libraries

Scratches and Consoles
                                                                                      DisplayDate() {print Y+"-"+M+"-"+D}
                                                                                       DisplayTIME() {print h+":"+m}
                                                                                e.g. to do state coverage one input like "<u>abadcaaaaa</u>" is enough

1) Complete the algorithm and code it using C/java, so it can be used as a real watch

2) find test suite for <u>auge coverage</u>

3) create an ADUP test suite based on variables: minutes, seconds, hours, day, month and year*/
☐ Tests passed: 4 (4 minutes ago)
                                                                                                                                                                                             153:35 (11 chars) CRLF UTF-8 4 spaces P master 🖫 🚺
```

```
☐ Eile Edit View Navigate Code Refactor Ruild Run Iools Git Window Help 19P87941ab 2 - Watch
                                                                                                                                                                                                                                                                       19P8794 lab 2 \rangle src \rangle test \rangle java \rangle \textcircled{e} WatchTest
                                                        ⊕ ₹ † + © Watchjava × © Watchjava × © Watchjava × © EvenOrOddTestjava × © EvenOrOddJava × © MaxAndMinValuesjava × © MaxAndMinValuesjava ×
  19P8794 lab 2 D:\Salma\uni\ye
                                                                                                                     import org.junit.jupiter.api.*;
import org.junit.jupiter.api.Test;
                 libraries
Jegitignore
Compiler.xml
JarRepositories.xml
Indicate the state of the st
                                                                                                                        import org.testng.annotations.*;
                                                                                                                       import java.util.Vector;
                                                                                                                       import static org.junit.Assert.*;
                  a vcs.xml
                  workspace.xml
Watch watch;
                                                                                                                               //static Vector<String> //edgeTCs = new Vector<String>();
                                                                                                                             public void init(){
                                                                                                                            watch = new Watch();
}
                                                                                                                                                                                                                                                                                                                                                                                                                 @DisplayName("Edge Testing")
                      © WatchTest
  ▶ 🗸 🔗 🚉 📮 💆 🛧 ↑ ↓ Q, 🗹 » 🗸 Tests passed: 6 of 6 tests – 80 m
 =
±
                                                                                                                                                                                                                                                                                                                                                                                                                ÷
  Ô

✓ Edge Testing

 恭
                                                                                          ADUP2 testing class: exception occurs when changing "m" value with the following message. Cannot invoke "java.lang.Integer.intValue()" because "this.m" is null
                             ✓ EdgeTestNormal()
✓ EdgeTestAlarm()

✓ EdgeTestUpdate()

                                                                                          ANIIP2 testing class: exception occurs when changing "h" value with the following message
 ☐ Tests passed: 6 (moments ago)
                                                                                                                                                                                                                                                                                                                       297:34 CRLF UTF-8 4 spaces 🏳 master 🚡 📵
  21 🗣 🖯 class EdgeTest{
     22
                                                 @Test
     23 😘
                                                   public void EdgeTestNormal(){...}
     34
                                                  @Test
     35 😘
                                                  public void EdgeTestUpdate(){...}
     99
                                                  @Test
   100 😘
                                                  public void EdgeTestAlarm(){...}
                                                  //TODO fix annot @Test
                                                  //@Test
  114
                                                   //public void outputSuite(){
                                                             //System.out.println("Edge Test Suite = "); //+ edgeTCs);
   116
```

```
class EdgeTest{
                                                                                                                 9 15
    @Test
   public void EdgeTestNormal(){
        watch.takeInput( letter: 'a'); //edgeTCs.add("a");
        assertEquals(watch.getState(), actual: "NORMAL");
        assertEquals(watch.getState1(), actual: "DATE");
        watch.takeInput( letter: 'a');
                                          //edgeTCs.add("a");
        assertEquals(watch.getState(), actual: "NORMAL");
        assertEquals(watch.getState1(), actual: "TIME");
    @Test
    public void EdgeTestUpdate(){
        watch.takeInput( letter: 'c'); //from normal to update
        //edgeTCs.add("c");
        watch.takeInput( letter: 'b');
        //edgeTCs.add("b");
        assertEquals(watch.getState(), actual: "UPDATE");
        assertEquals(watch.getState1(), actual: "MIN");
        watch.takeInput( letter: 'a');
        watch.takeInput( letter: 'b');
        //edgeTCs.add("a");
        //edgeTCs.add("b");
        assertEquals(watch.getState(), actual: "UPDATE");
        assertEquals(watch.getState1(), actual: "HOUR");
```

```
53
                     watch.takeInput( letter: 'a');
54
                     watch.takeInput( letter: 'b');
55
                     //edgeTCs.add("a");
                     //edgeTCs.add("b");
56
                     assertEquals(watch.getState(), actual: "UPDATE");
57
58
                     assertEquals(watch.getState1(), actual: "DAY");
59
                     watch.takeInput( letter: 'a');
60
61
                     watch.takeInput( letter: 'b');
                     //edgeTCs.add("a");
62
63
                     //edgeTCs.add("b");
                     assertEquals(watch.getState(), actual: "UPDATE");
64
                     assertEquals(watch.getState1(), actual: "MONTH");
65
66
67
                     watch.takeInput( letter: 'a');
68
                     watch.takeInput( letter: 'b');
                     //edgeTCs.add("a");
69
70
                     //edgeTCs.add("b");
71
                     assertEquals(watch.getState(), actual: "UPDATE");
72
                     assertEquals(watch.getState1(), actual: "YEAR");
73
74
                     watch.takeInput( letter: 'a'); //exit update
75
                     //edgeTCs.add("a");
                     assertEquals(watch.getState(), actual: "NORMAL");
76
77
                     assertEquals (watch.getState1(), actual: "TIME");
78
79
                     watch.takeInput( letter: 'c'); //to update
80
                     //edgeTCs.add("c");
                     assertEquals(watch.getState(), actual: "UPDATE");
81
                     assertEquals(watch.getState1(), actual: "MIN");
82
83
                     watch.takeInput( letter: 'd'); //exit update
84
                     //edgeTCs.add("d");
```

```
84
                     //edgeTCs.add("d");
 85
                     assertEquals(watch.getState(), actual: "NORMAL");
                     assertEquals(watch.getState1(), actual: "TIME");
 86
 87
 88
                     assertEquals(watch.getm(), new Integer( value: 1));
 89
                     assertEquals(watch.geth(), new Integer( value: 1));
 90
                     assertEquals(watch.getD(), new Integer( value: 2));
 91
                     assertEquals(watch.getM(), new Integer( value: 2));
 92
                     assertEquals(watch.getY(), new Integer( value: 2001));
 93
 94
                     System.out.print("\nDate: ");
 95
                     watch.displayDate();
 96
                     System.out.print("\nTime: ");
 97
                     watch.displayTime();
 98
                 }
 99
                 @Test
                 public void EdgeTestAlarm(){
100 😘
101
                     watch.takeInput( letter: 'b');
                                                               //edgeTCs.add("b");
                     assertEquals(watch.getState(), actual: "ALARM");
103
                     assertEquals(watch.getState1(), actual: "ALARM");
104
                     watch.takeInput( letter: 'a');
                                                              //edgeTCs.add("a");
                     assertEquals(watch.getState(), actual: "ALARM");
105
106
                     assertEquals(watch.getState1(), actual: "CHIME");
                                                              //edgeTCs.add("d");
107
                     watch.takeInput( letter: 'd');
108
                     assertEquals(watch.getState(), actual: "NORMAL");
109
                     assertEquals(watch.getState1(), actual: "TIME");
110
111
112
                 //TODO fix annot @Test
                 //@Test
114
                 //public void outputSuite(){
        //define:
        //setNull method
        //setters
        //constructor (none to use associations here since it uses setters immediately)
        //takeInput
        //use:
        //takeInput
        //thus, all def-use =
        //1. setters to takeInput
        //2. setNull to takeInput
```

//3. takeInput to takeInput

```
132
            @Nested
133
            @DisplayName("ADUP Testing")
134 😘
            class ADUPTest{
135
                //TODO fix ADUPTCs [][] output
                //static Vector<Vector<String>> ADUPTCs = new Vector<Vector<String>>(3);
136
137
                //static int i = 0;
138
                @Test
139
                public void ADUP1(){...}
192
                @Test
193 😘
                public void ADUP2(){...}
281
                @Test
                public void ADUP3(){...}
282 😘
329
330
331
332
       /*...*/
346
       ·/*...*/
357
            @AfterEach
358
            public void cleanUp(){
359
               watch.setNull();
                watch = null;
361
362
363
        }
```

