

Unit-Testing using JUnit

Reported by:

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Testing for Unmodified Program

I. Testing for Palindrome_1.java

```

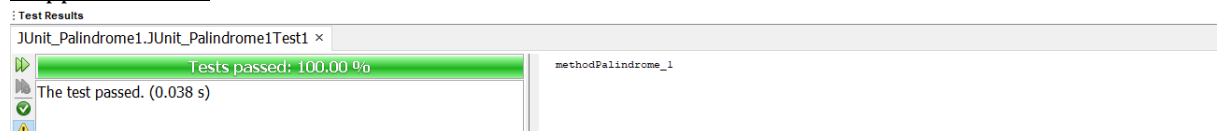
1.  /*
2.  Kelompok 06 PA2
3.  1. 11321019      Elsaday Sianturi
4.  2. 11321044      Yudhi Purba
5.  3. 11321069      Maria Fransiska Giawa
6.  4. 11321071      Putri Wita Marito
7.
8.  * To change this license header, choose License Headers in Project Properties.
9.  * To change this template file, choose Tools | Templates
10. * and open the template in the editor.
11. */
12. package JUnit_Palindrome1;
13. import java.io.BufferedReader;
14. import java.io.InputStreamReader;
15. /**
16.  *
17.  * @author USER
18.  */
19. public class Palindrome1 {
20.     public String methodPalindrome_1(int n1){
21.         String hasil;
22.         BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
23.         int r, n2;
24.         int rev=0;
25.         n2=n1;
26.         while(n1>0){
27.             r = n1%10;
28.             rev = rev*10+r;
29.             n1 = n1*10;
30.         }
31.         if(rev==n2){
32.             hasil = "palindrome number!";
33.         } else{
34.             hasil = "NOT palindrome number!";
35.         }
36.         return hasil;
37.     }
38. }
```

a. Input: 1

Snippet of test case

```
/**
 * Test of methodPalindrome_1 method, of class Palindrome1.
 */
@Test
public void testMethodPalindrome_1() {
    System.out.println("methodPalindrome_1");
    int n1 = 1;
    Palindrome1 instance = new Palindrome1();
    String expectedResult = "NOT palindrome number!";
    String result = instance.methodPalindrome_1(n1);
    assertEquals(expResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}
```

Snippet of results

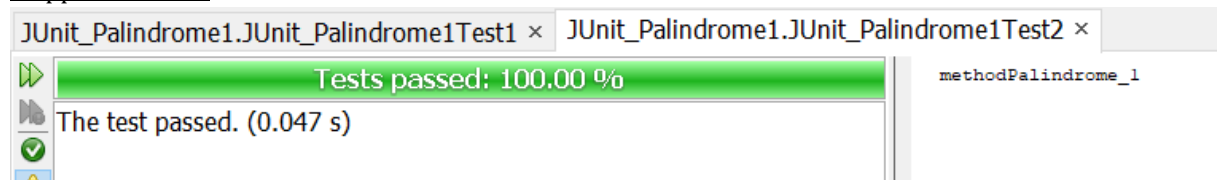


b. Input: 22

Snippet of test case

```
@Test
public void testMethodPalindrome_1() {
    System.out.println("methodPalindrome_1");
    int n1 = 22;
    Palindrome1 instance = new Palindrome1();
    String expectedResult = "NOT palindrome number!";
    String result = instance.methodPalindrome_1(n1);
    assertEquals(expResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}
```

Snippet of results



c. Input: 27

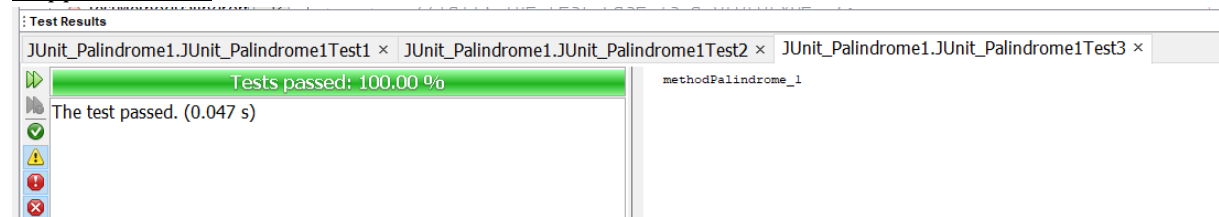
Snippet of test case

```

    /**
    @Test
    public void testMethodPalindrome_1() {
        System.out.println("methodPalindrome_1");
        int n1 = 27;
        Palindrome1 instance = new Palindrome1();
        String expectedResult = "NOT palindrome number!";
        String result = instance.methodPalindrome_1(n1);
        assertEquals(expResult, result);
        // TODO review the generated test code and remove the default call to fail.
        //fail("The test case is a prototype.");
    }
}

```

Snippet of results



d. Input: 8998

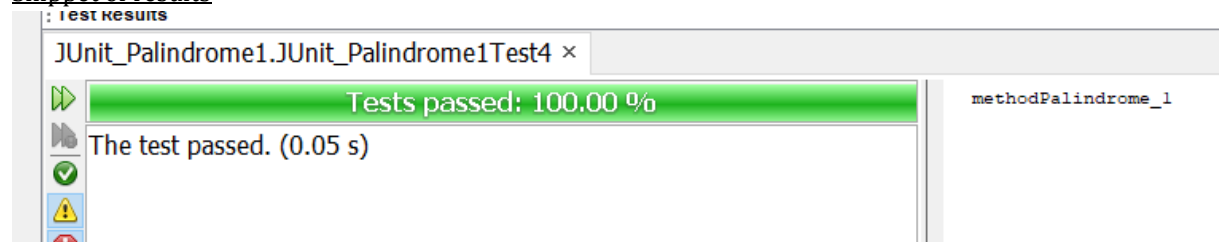
Snippet of test case

```

    /**
    @Test
    public void testMethodPalindrome_1() {
        System.out.println("methodPalindrome_1");
        int n1 = 8998;
        Palindrome1 instance = new Palindrome1();
        String expectedResult = "NOT palindrome number!";
        String result = instance.methodPalindrome_1(n1);
        assertEquals(expResult, result);
        // TODO review the generated test code and remove the default call to fail.
        //fail("The test case is a prototype.");
    }
}

```

Snippet of results



e. Input: 2373

Snippet of test case

```
@Test
public void testMethodPalindrome_1() {
    System.out.println("methodPalindrome_1");
    int n1 = 2373;
    Palindrome1 instance = new Palindrome1();
    String expectedResult = "NOT palindrome number!";
    String result = instance.methodPalindrome_1(n1);
    assertEquals(expectedResult, result);
    // TODO review the generated test code and remove the default call to fail.
    // fail("The test case is a prototype.");
}
```

Snippet of results

The screenshot shows the JUnit test results window. The title bar reads 'JUnit_Palindrome1.JUnit_Palindrome1Test5 ×'. The main area has a green background with the text 'Tests passed: 100.00 %' and 'The test passed. (0.047 s)'. On the right, the method name 'methodPalindrome_1' is listed. On the left, there are icons for running the test (a green play button), a green checkmark, a yellow warning triangle, and a red exclamation mark.

f. Input: 78938

Snippet of test case

```
@Test
public void testMethodPalindrome_1() {
    System.out.println("methodPalindrome_1");
    int n1 = 78938;
    Palindrome1 instance = new Palindrome1();
    String expectedResult = "NOT palindrome number!";
    String result = instance.methodPalindrome_1(n1);
    assertEquals(expectedResult, result);
    // TODO review the generated test code and remove the default call to fail.
    // fail("The test case is a prototype.");
}
```

Snippet of results

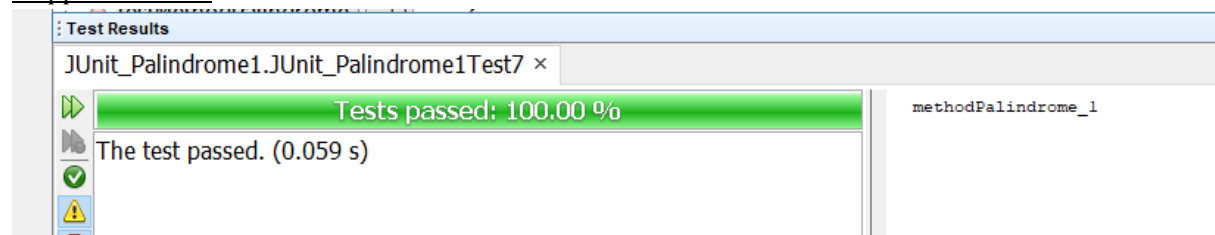
The screenshot shows the JUnit test results window. The title bar reads 'JUnit_Palindrome1.JUnit_Palindrome1Test6 ×'. The main area has a green background with the text 'Tests passed: 100.00 %' and 'The test passed. (0.047 s)'. On the right, the method name 'methodPalindrome_1' is listed. On the left, there are icons for running the test (a green play button), a green checkmark, a yellow warning triangle, and a red exclamation mark.

g. Input: 1834554381

Snippet of test case

```
@Test
public void testMethodPalindrome_1() {
    System.out.println("methodPalindrome_1");
    int n1 = 1834554381;
    Palindrome1 instance = new Palindrome1();
    String expectedResult = "NOT palindrome number!";
    String result = instance.methodPalindrome_1(n1);
    assertEquals(expectedResult, result);
    // TODO review the generated test code and remove the default call to fail.
    // fail("The test case is a prototype.");
}
```

Snippet of results

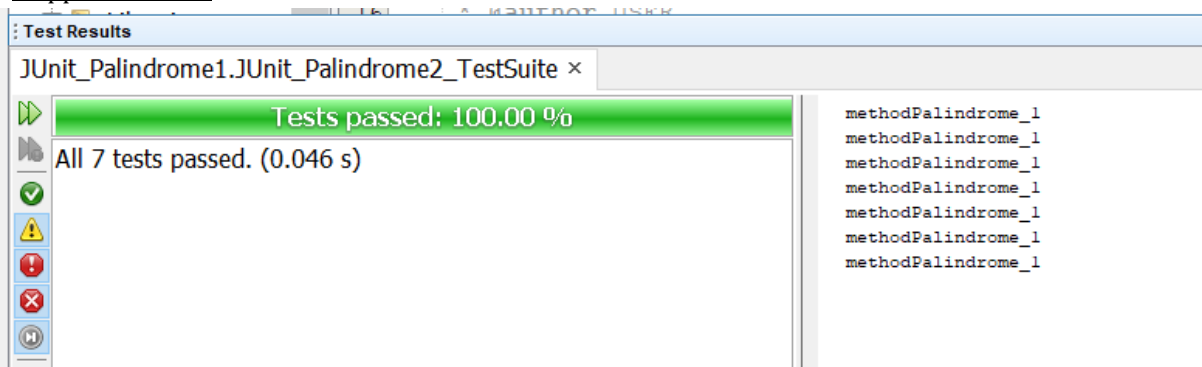


h. Test Suite

Snippet of test case

```
12 package JUnit_Palindrome1;
13
14 /**
15  *
16  * @author USER
17  */
18 import org.junit.runner.RunWith;
19 import org.junit.runners.Suite;
20
21 @RunWith(Suite.class)
22 @Suite.SuiteClasses({
23     JUnit_Palindrome1Test1.class ,
24     JUnit_Palindrome1Test2.class ,
25     JUnit_Palindrome1Test3.class ,
26     JUnit_Palindrome1Test4.class ,
27     JUnit_Palindrome1Test5.class ,
28     JUnit_Palindrome1Test6.class ,
29     JUnit_Palindrome1Test7.class ,
30 })
31 public class JUnit_Palindrome2_TestSuite {
32
33 }
34
```

Snippet of results



II. Testing for Palindrome_2.java

```

1.  /*
2.  Kelompok 06 PA2
3.  1. 11321019      Elsaday Sianturi
4.  2. 11321044      Yudhi Purba
5.  3. 11321069      Maria Fransiska Giawa
6.  4. 11321071      Putri Wita Marito
7.
8.  * To change this license header, choose License Headers in Project Properties.
9.  * To change this template file, choose Tools | Templates
10. * and open the template in the editor.
11. */
12. package JUnit_Palindrome2;
13. import java.util.Scanner;
14. /**
15.  *
16.  * @author USER
17.  */
18. public class Palindrome2 {
19.     public String methodPalindrome_2(String original){
20.         String reverse = "";
21.         String hasil;
22.         Scanner in = new Scanner(System.in);
23.
24.         int length = original.length();
25.
26.         for(int i=length-1; i>=0; i--)
27.             reverse = reverse + original.charAt(i);
28.         if(original.equals(reverse))
29.             hasil = "palindrome string!";
30.         else
31.             hasil = "NOT palindrome string!";
32.         return hasil;
33.     }
34. }

```

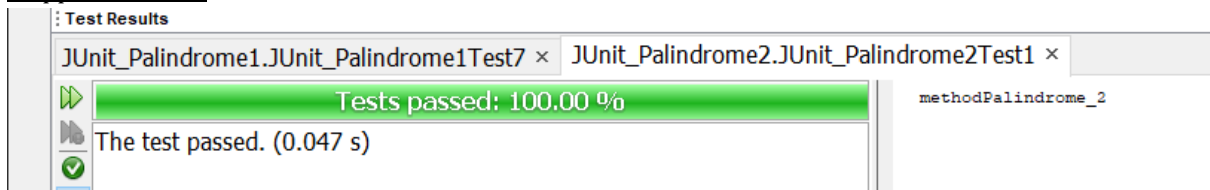
a. Input: a

Snippet of test case

```

1.  * Test of methodPalindrome_2 method, of class Palindrome2.
2.  */
3.  @Test
4.  public void testMethodPalindrome_2() {
5.      System.out.println("methodPalindrome_2");
6.      String original = "is";
7.      Palindrome2 instance = new Palindrome2();
8.      String expResult = "NOT palindrome string!";
9.      String result = instance.methodPalindrome_2(original);
10.     assertEquals(expResult, result);
11.     // TODO review the generated test code and remove the default call to fail.
12.     //fail("The test case is a prototype.");
13. }

```

Snippet of results

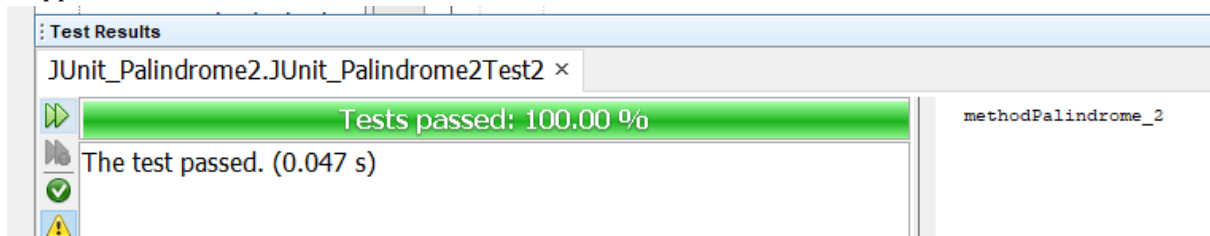
b. Input: is

Snippet of test case

```

    * Test of methodPalindrome_2 method, of class Palindrome2.
    */
    @Test
    public void testMethodPalindrome_2() {
        System.out.println("methodPalindrome_2");
        String original = "is";
        Palindrome2 instance = new Palindrome2();
        String expectedResult = "NOT palindrome string!";
        String result = instance.methodPalindrome_2(original);
        assertEquals(expectedResult, result);
        // TODO review the generated test code and remove the default call to fail.
        //fail("The test case is a prototype.");
    }
}

```

Snippet of results

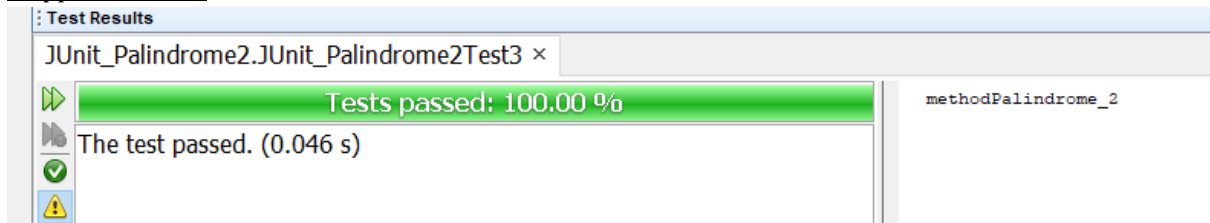
c. Input: isi

Snippet of test case

```

    @Test
    public void testMethodPalindrome_2() {
        System.out.println("methodPalindrome_2");
        String original = "isi";
        Palindrome2 instance = new Palindrome2();
        String expectedResult = "palindrome string!";
        String result = instance.methodPalindrome_2(original);
        assertEquals(expectedResult, result);
        // TODO review the generated test code and remove the default call to fail.
        //fail("The test case is a prototype.");
    }
}

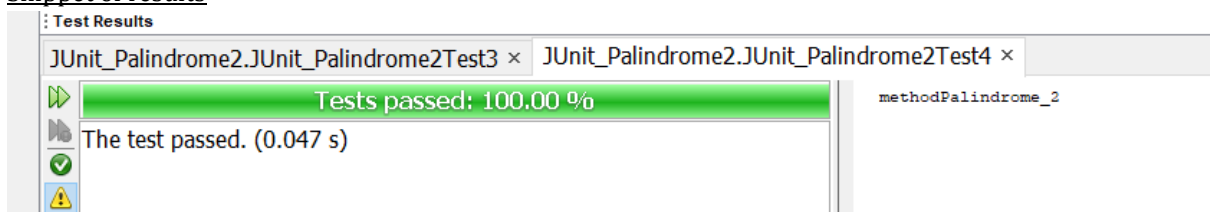
```

Snippet of results

d. Input: radar

Snippet of test case

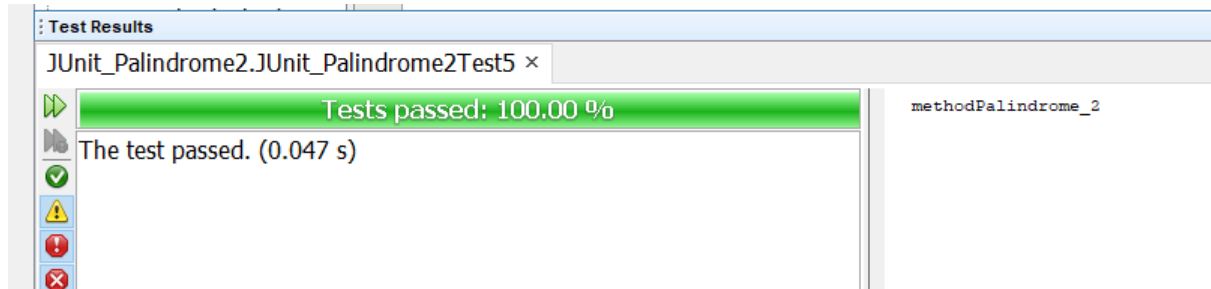
```
@Test
public void testMethodPalindrome_2() {
    System.out.println("methodPalindrome_2");
    String original = "radar";
    Palindrome2 instance = new Palindrome2();
    String expectedResult = "palindrome string!";
    String result = instance.methodPalindrome_2(original);
    assertEquals(expectedResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}
```

Snippet of results

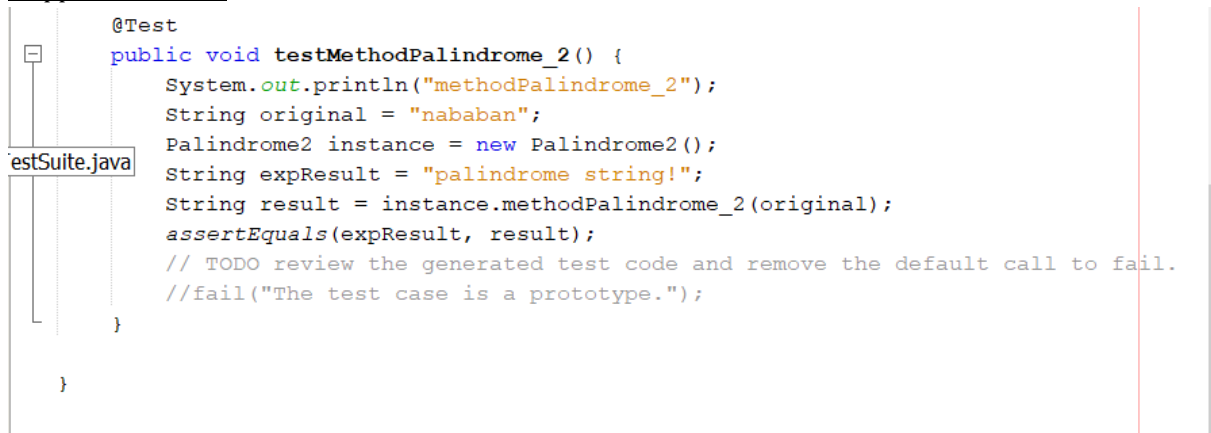
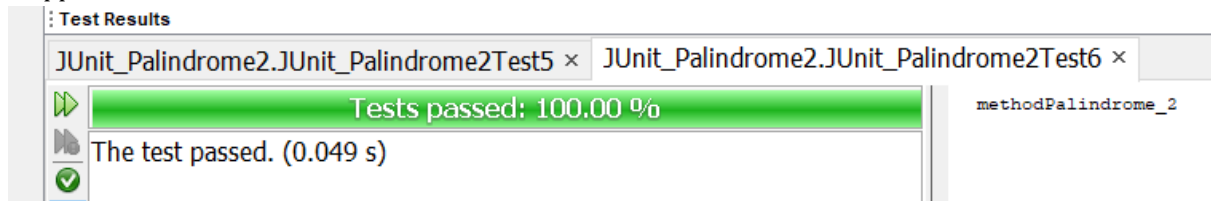
e. Input: palindrome

Snippet of test case

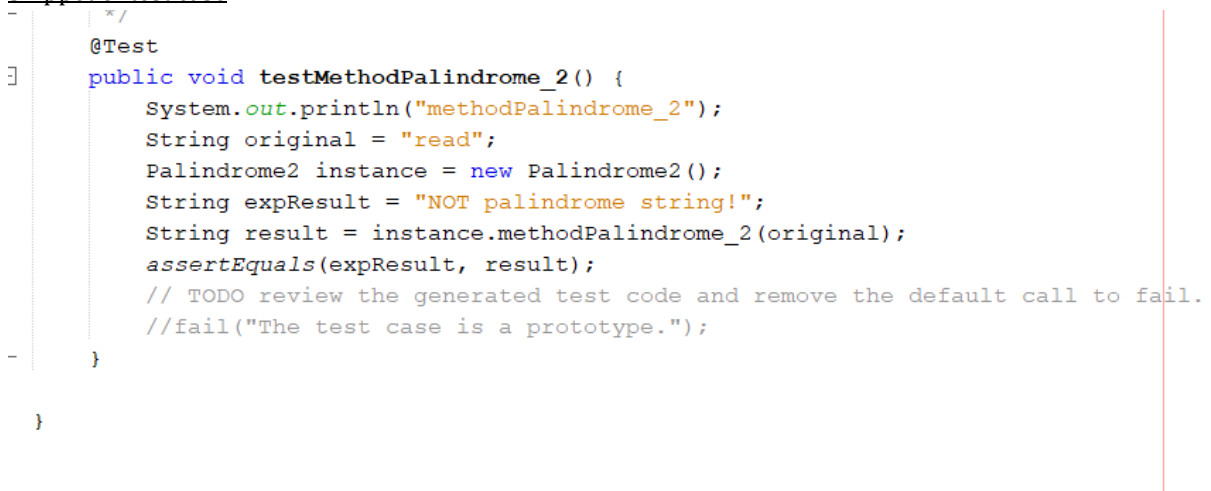
```
@Test
public void testMethodPalindrome_2() {
    System.out.println("methodPalindrome_2");
    String original = "palindrome";
    Palindrome2 instance = new Palindrome2();
    String expectedResult = "NOT palindrome string!";
    String result = instance.methodPalindrome_2(original);
    assertEquals(expectedResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}
```

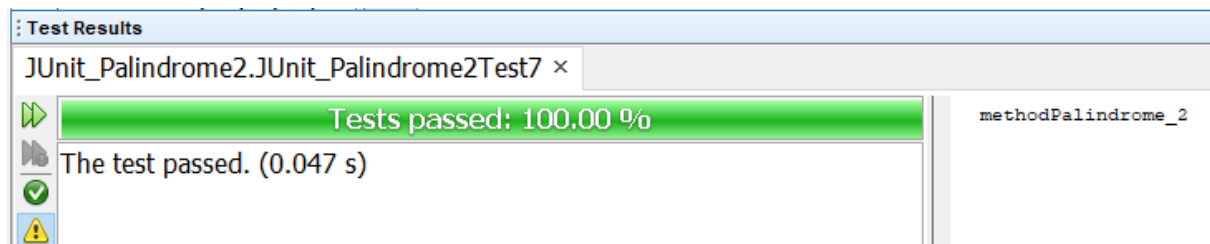

Snippet of results

f. Input: nababan

Snippet of test caseSnippet of results

g. Input: read

Snippet of test caseSnippet of results



h. TestSuite

Snippet of test case

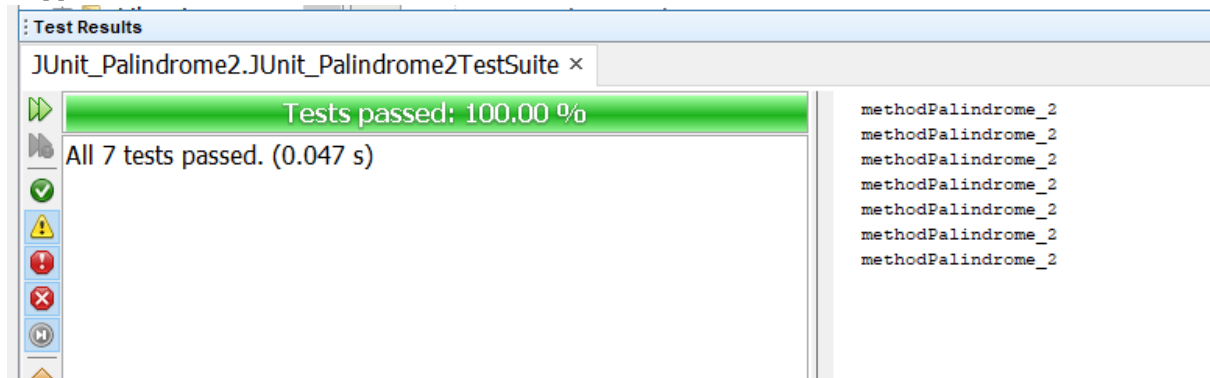
```
package JUnit_Palindrome2;

/**
 *
 * @author USER
 */
import org.junit.runner.RunWith;
import org.junit.runners.Suite;

@RunWith(Suite.class)
@Suite.SuiteClasses({
    JUnit_Palindrome2Test1.class ,
    JUnit_Palindrome2Test2.class ,
    JUnit_Palindrome2Test3.class ,
    JUnit_Palindrome2Test4.class ,
    JUnit_Palindrome2Test5.class ,
    JUnit_Palindrome2Test6.class ,
    JUnit_Palindrome2Test7.class ,
})
public class JUnit_Palindrome2TestSuite {

}
```

Snippet of results



III. Testing for Reverse_1.java

```
/*
1. Kelompok 06 PA2
2. 1. 11321019 Elsaday Sianturi
3. 2. 11321044 Yudhi Purba
4. 3. 11321069 Maria Fransiska Giawa
5. 4. 11321071 Putri Wita Marito
6.
7. * To change this license header, choose License Headers in Project Properties.
8. * To change this template file, choose Tools | Templates
9. * and open the template in the editor.
10. */
11. package JUnit_Reverse1;
12.
```

```

13. import java.io.BufferedReader;
14. import java.io.InputStreamReader;
15. /**
16.  *
17.  * @author USER
18.  */
19. public class Reverse1 {
20.     public String methodReverse_1(int n){
21.         String hasil;
22.         BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
23.         int r;
24.         int rev = 0;
25.         int number = n;
26.
27.         while(n>0){
28.             r = n%10;
29.             rev = rev*10+r;
30.             n = n/10;
31.         }
32.
33.         hasil = "The reverse of "+number+ " is "+rev;
34.         return hasil;
35.     }
36. }

```

a. Input: 1

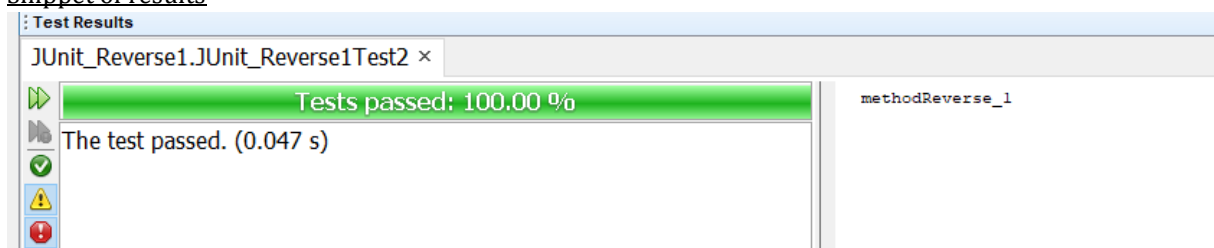
Snippet of test case

```

@Test
public void testMethodReverse_1 () {
    System.out.println("methodReverse_1");
    int n = 1;
    Reverse1 instance = new Reverse1();
    String expectedResult = "The reverse of "+n+ " is 1";
    String result = instance.methodReverse_1(n);
    assertEquals(expectedResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}

```

Snippet of results

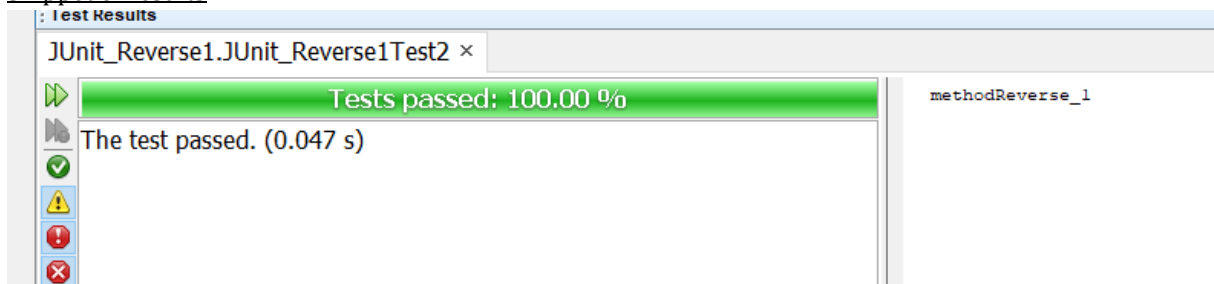


b. Input: 22

Snippet of test case

```
@Test
public void testMethodReverse_1() {
    System.out.println("methodReverse_1");
    int n = 22;
    Reverse1 instance = new Reverse1();
    String expResult = "The reverse of "+n+ " is 22";
    String result = instance.methodReverse_1(n);
    assertEquals(expResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}
}
```

Snippet of results

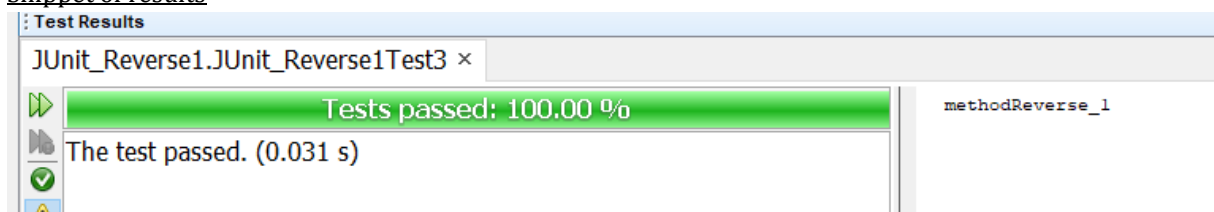


c. Input: 27

Snippet of test case

```
@Test
public void testMethodReverse_1() {
    System.out.println("methodReverse_1");
    int n = 27;
    Reverse1 instance = new Reverse1();
    String expResult = "The reverse of "+n+ " is 72";
    String result = instance.methodReverse_1(n);
    assertEquals(expResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}
}
```

Snippet of results

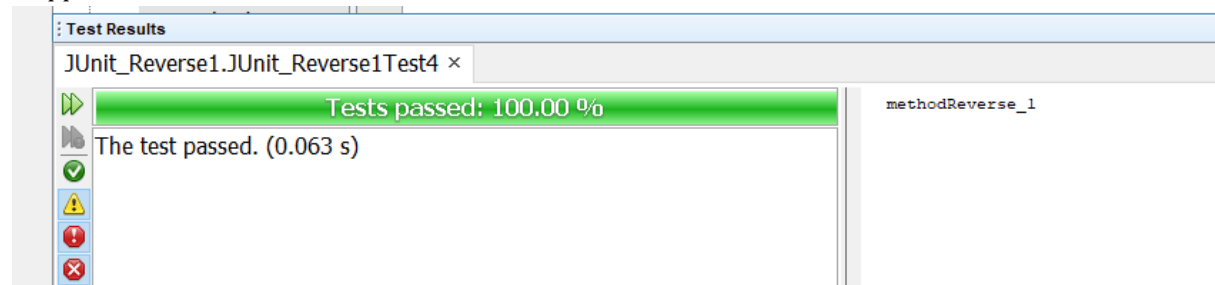


d. Input: 8998

Snippet of test case

```
@Test
public void testMethodReverse_1() {
    System.out.println("methodReverse_1");
    int n = 8998;
    Reverse1 instance = new Reverse1();
    String expectedResult = "The reverse of "+n+ " is 8998";
    String result = instance.methodReverse_1(n);
    assertEquals(expResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}
```

Snippet of results

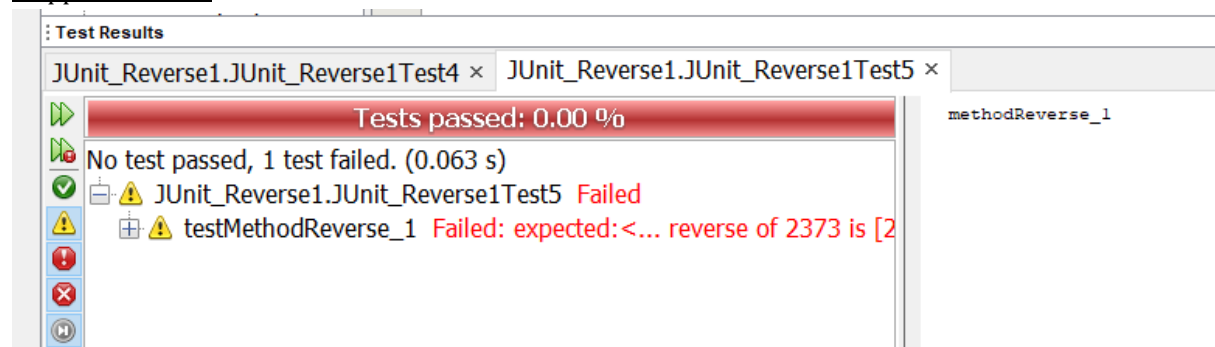


e. Input: 2373

Snippet of test case

```
@Test
public void testMethodReverse_1() {
    System.out.println("methodReverse_1");
    int n = 2373;
    Reverse1 instance = new Reverse1();
    String expectedResult = "The reverse of "+n+ " is 2373";
    String result = instance.methodReverse_1(n);
    assertEquals(expResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}
```

Snippet of results



f. Input: 78938

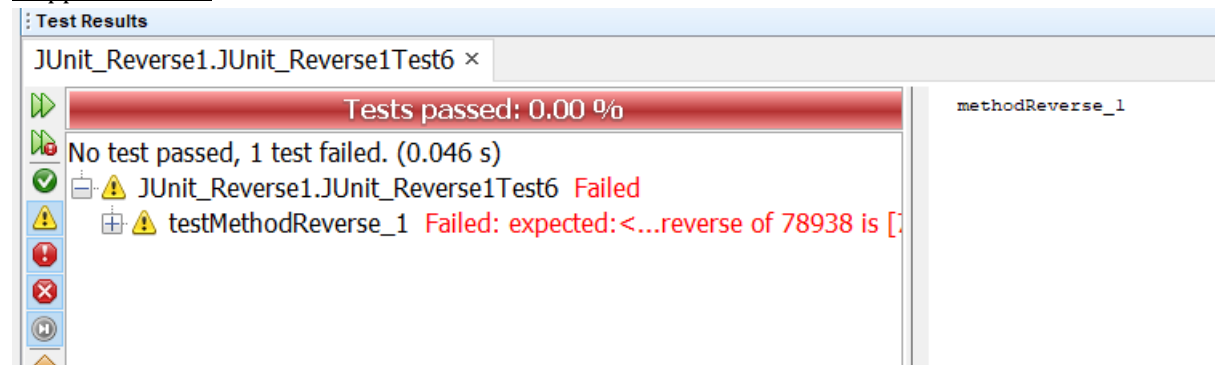
Snippet of test case

```

@Test
public void testMethodReverse_1() {
    System.out.println("methodReverse_1");
    int n = 78938;
    Reversel instance = new Reversel();
    String expResult = "The reverse of "+n+ " is 78938";
    String result = instance.methodReverse_1(n);
    assertEquals(expResult, result);
    // TODO review the generated test code and remove the default call to fail.
    fail("The test case is a prototype.");
}

```

Snippet of results



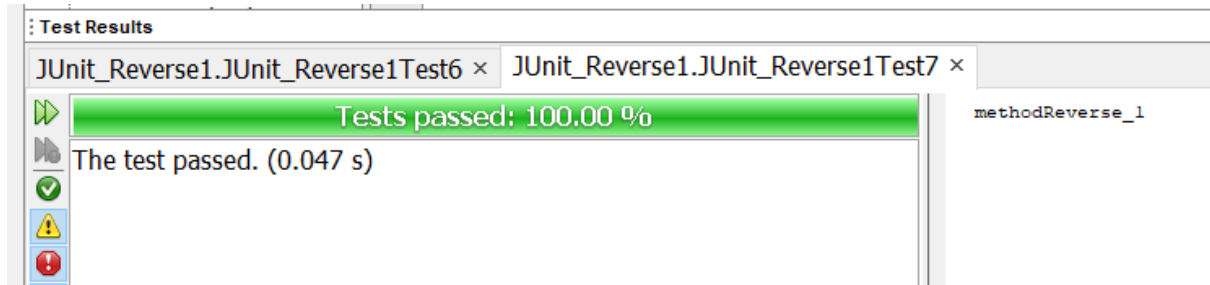
g. Input: 1834554381

Snippet of test case

```

@Test
public void testMethodReverse_1() {
    System.out.println("methodReverse_1");
    int n = 1834554381;
    Reversel instance = new Reversel();
    String expResult = "The reverse of "+n+ " is 1834554381";
    String result = instance.methodReverse_1(n);
    assertEquals(expResult, result);
    // TODO review the generated test code and remove the default call to fail.
    fail("The test case is a prototype.");
}

```

Snippet of results

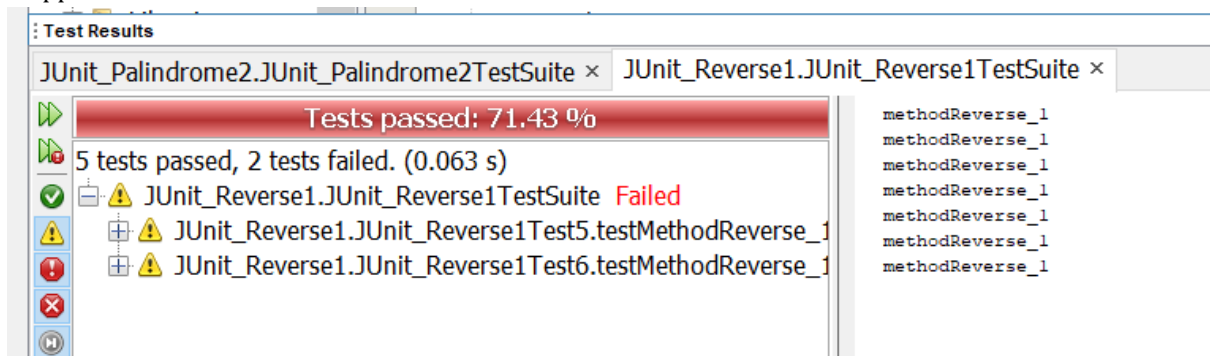
h. TestSuite

Snippet of test case

```

12 package JUnit_Reverse1;
13
14 /**
15  *
16  * @author USER
17  */
18 import org.junit.runner.RunWith;
19 import org.junit.runners.Suite;
20
21 @RunWith(Suite.class)
22 @Suite.SuiteClasses({
23     JUnit_Reverse1Test1.class ,
24     JUnit_Reverse1Test2.class ,
25     JUnit_Reverse1Test3.class ,
26     JUnit_Reverse1Test4.class ,
27     JUnit_Reverse1Test5.class ,
28     JUnit_Reverse1Test6.class ,
29     JUnit_Reverse1Test7.class ,
30 })
31 public class JUnit_Reverse1TestSuite {
32
33 }
34

```

Snippet of results

IV. Testing for Reverse_2.java

```

IV.    /*
V.      Kelompok 06 PA2
VI.     1.  11321019      Elsaday Sianturi
VII.    2.  11321044      Yudhi Purba
VIII.   3.  11321069      Maria Fransiska Giawa
IX.     4.  11321071      Putri Wita Marito
X.
XI.     * To change this license header, choose License Headers in Project Properties.
XII.    * To change this template file, choose Tools | Templates
XIII.   * and open the template in the editor.
XIV.    */
XV.     package JUnit_Reverse2;
XVI.
XVII.    /**
XVIII.   *
XIX.    * @author USER
XX.     */
XXI.    public class Reverse2 {
XXII.        public String methodReverse_2(String original){
XXIII.            String hasil;
XXIV.            String reverse = "";
XXV.            int length = original.length();
XXVI.            for(int i=length-1; i>0; i--)
XXVII.                reverse = reverse + original.charAt(i);
XXVIII.
XXIX.            hasil = "The reverse of "+original+" is "+reverse;
XXX.            return hasil;
XXXI.        }
XXXII.    }

```

a. Input: a

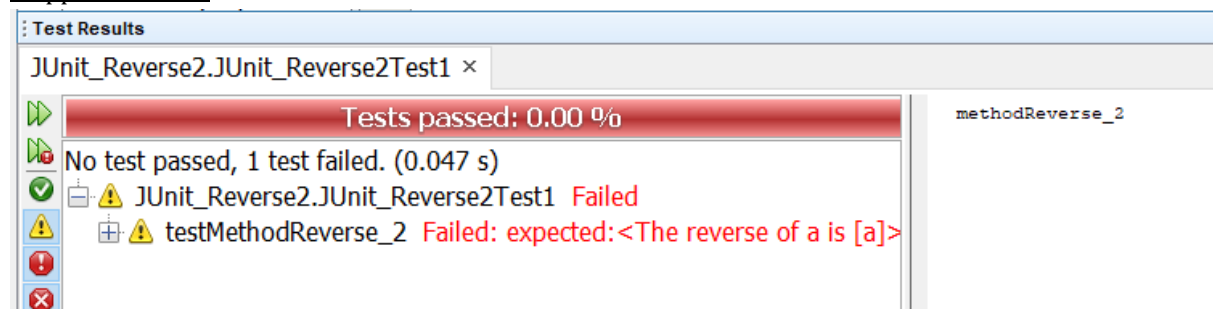
Snippet of test case

```

3  /**
-   * Test of methodReverse_2 method, of class Reverse2.
-   */
-   @Test
3  public void testMethodReverse_2() {
    System.out.println("methodReverse_2");
    String original = "a";
    Reverse2 instance = new Reverse2();
    String expResult = "The reverse of "+original+" is a";
    String result = instance.methodReverse_2(original);
    assertEquals(expResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
-   }
-   }

```

Snippet of results



b. Input: is

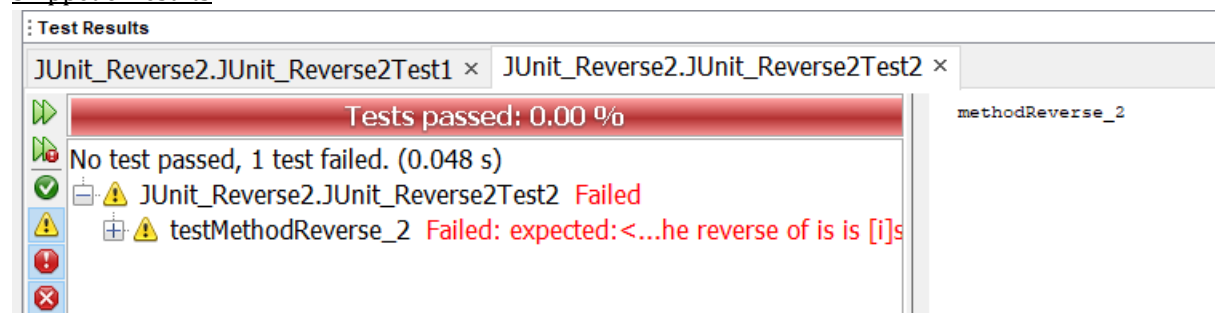
Snippet of test case

```

    */
    @Test
    public void testMethodReverse_2() {
        System.out.println("methodReverse_2");
        String original = "is";
        Reverse2 instance = new Reverse2();
        String expResult = "The reverse of "+original+" is is";
        String result = instance.methodReverse_2(original);
        assertEquals(expResult, result);
        // TODO review the generated test code and remove the default call to fail.
        //fail("The test case is a prototype.");
    }
}

```

Snippet of results



c. Input: isi

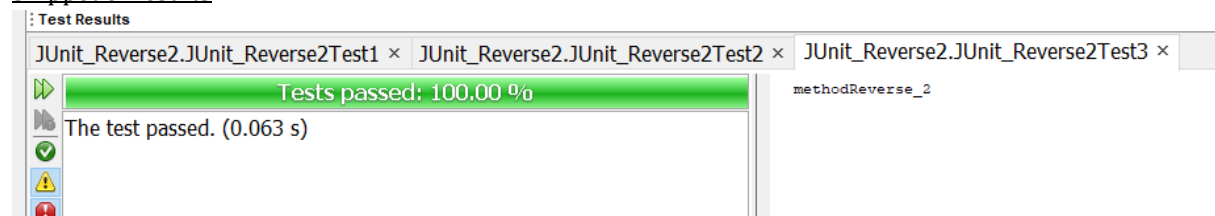
Snippet of test case

```

    */
    @Test
    public void testMethodReverse_2() {
        System.out.println("methodReverse_2");
        String original = "isi";
        Reverse2 instance = new Reverse2();
        String expResult = "The reverse of "+original+" is is";
        String result = instance.methodReverse_2(original);
        assertEquals(expResult, result);
        // TODO review the generated test code and remove the default call to fail.
        //fail("The test case is a prototype.");
    }
}

```

Snippet of results



d. Input: radar

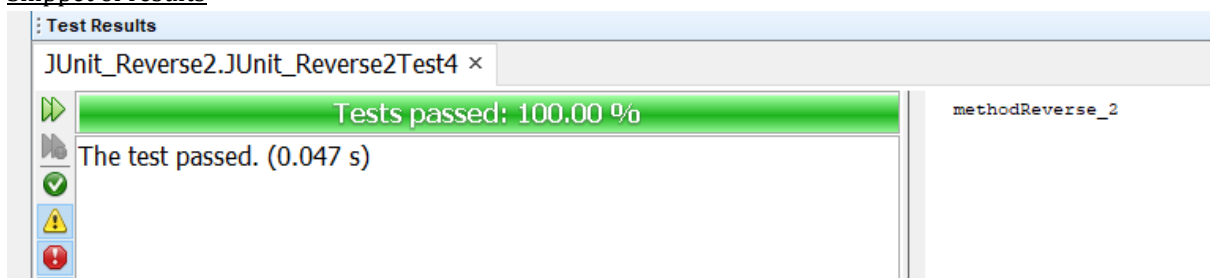
Snippet of test case

```

@Test
public void testMethodReverse_2() {
    System.out.println("methodReverse_2");
    String original = "radar";
    Reverse2 instance = new Reverse2();
    String expResult = "The reverse of "+original+" is rada";
    String result = instance.methodReverse_2(original);
    assertEquals(expResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}
}

```

Snippet of results



e. Input: palindrome

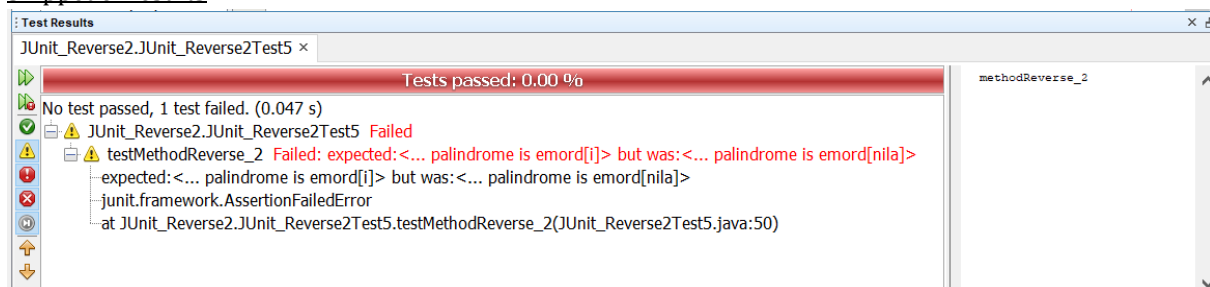
Snippet of test case

```

@Test
public void testMethodReverse_2() {
    System.out.println("methodReverse_2");
    String original = "palindrome";
    Reverse2 instance = new Reverse2();
    String expResult = "The reverse of "+original+" is emordi";
    String result = instance.methodReverse_2(original);
    assertEquals(expResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}
}

```

Snippet of results



f. Input: nababan

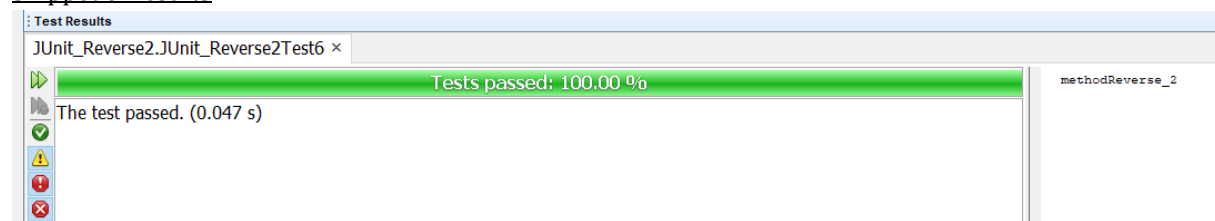
Snippet of test case

```

    /**
     * @Test
     * public void testMethodReverse_2() {
     *     System.out.println("methodReverse_2");
     *     String original = "nababan";
     *     Reverse2 instance = new Reverse2();
     *     String expResult = "The reverse of "+original+" is nababa";
     *     String result = instance.methodReverse_2(original);
     *     assertEquals(expResult, result);
     *     // TODO review the generated test code and remove the default call to fail.
     *     //fail("The test case is a prototype.");
     * }
     */
}

```

Snippet of results



g. Input: read

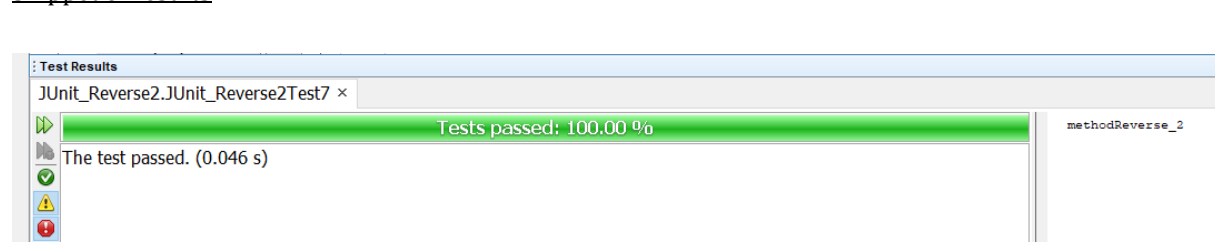
Snippet of test case

```

    /**
     * @Test
     * public void testMethodReverse_2() {
     *     System.out.println("methodReverse_2");
     *     String original = "read";
     *     Reverse2 instance = new Reverse2();
     *     String expResult = "The reverse of "+original+" is dae";
     *     String result = instance.methodReverse_2(original);
     *     assertEquals(expResult, result);
     *     // TODO review the generated test code and remove the default call to fail.
     *     //fail("The test case is a prototype.");
     * }
     */
}

```

Snippet of results



h. Test Suite

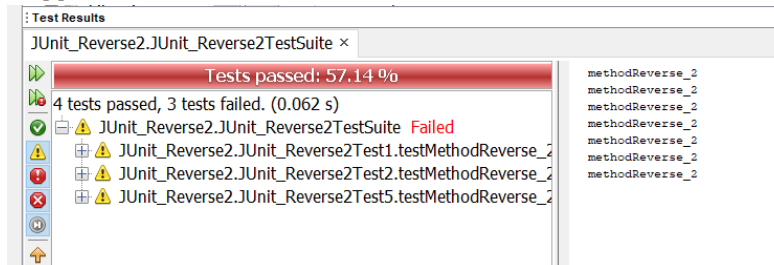
Snippet of test case

```

18  import org.junit.runner.RunWith;
19  import org.junit.runners.Suite;
20
21  @RunWith(Suite.class)
22  @Suite.SuiteClasses({
23      JUnit_Reverse2Test1.class ,
24      JUnit_Reverse2Test2.class ,
25      JUnit_Reverse2Test3.class ,
26      JUnit_Reverse2Test4.class ,
27      JUnit_Reverse2Test5.class ,
28      JUnit_Reverse2Test6.class ,
29      JUnit_Reverse2Test7.class ,
30  })
31  public class JUnit_Reverse2TestSuite {
32
33  }
34

```

Snippet of results



Testing for Modified Program**I. Testing for Reverse1**

```

1.  /*
2.  Kelompok 06 PA2
3.  1. 11321019      Elsaday Sianturi
4.  2. 11321044      Yudhi Purba
5.  3. 11321069      Maria Fransiska Giawa
6.  4. 11321071      Putri Wita Marito
7.
8.  * To change this license header, choose License Headers in Project Properties.
9.  * To change this template file, choose Tools | Templates
10. * and open the template in the editor.
11. */
12. package JUnit_Reverse1;
13.
14. import java.io.BufferedReader;
15. import java.io.InputStreamReader;
16.
17. /**
18.  *
19.  * @author USER
20.  */
21. public class Reverse1 {
22.     public String methodReverse_1(int n){
23.         String hasil;
24.         BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
25.         int r;
26.         int rev = 0;
27.         int number = n;
28.
29.         while(n>0){
30.             r = n%10;
31.             rev = rev*10+r;
32.             n = n/10;
33.         }
34.
35.         hasil = "The reverse of "+number+ " is "+rev;
36.         return hasil;
37.     }
38. }

```

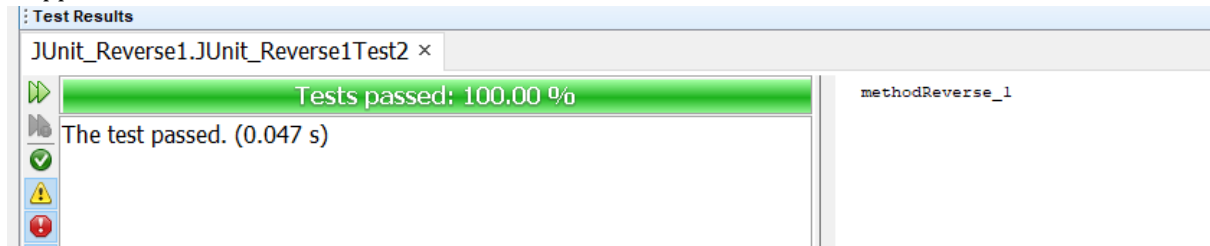
a. Input: 1

Snippet of test case

```

@Test
public void testMethodReverse_1 () {
    System.out.println("methodReverse_1");
    int n = 1;
    Reverse1 instance = new Reverse1();
    String expectedResult = "The reverse of "+n+ " is 1";
    String result = instance.methodReverse_1(n);
    assertEquals(expectedResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}

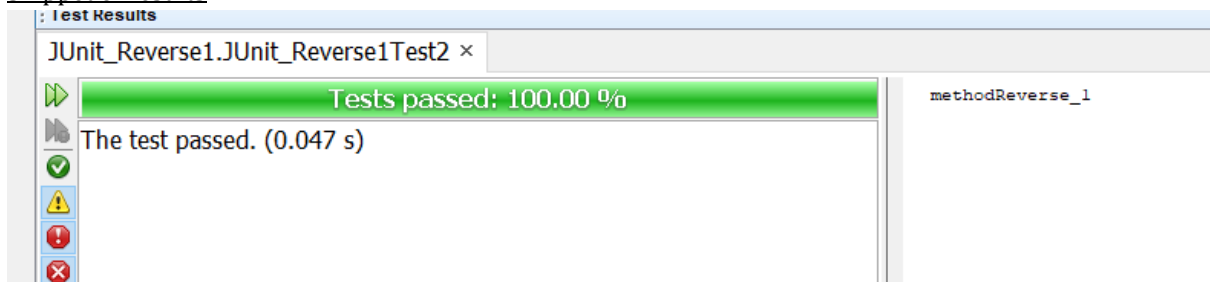
```

Snippet of results

b. Input: 22

Snippet of test case

```
@Test
public void testMethodReverse_1() {
    System.out.println("methodReverse_1");
    int n = 22;
    Reversel instance = new Reversel();
    String expResult = "The reverse of "+n+ " is 22";
    String result = instance.methodReverse_1(n);
    assertEquals(expResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}
```

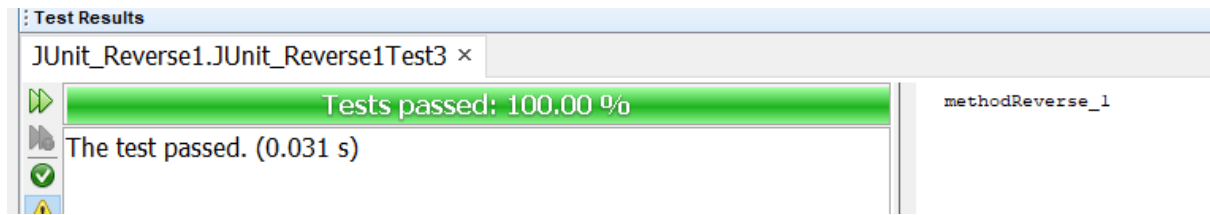
Snippet of results

c. Input: 27

Snippet of test case

```
@Test
public void testMethodReverse_1() {
    System.out.println("methodReverse_1");
    int n = 27;
    Reversel instance = new Reversel();
    String expResult = "The reverse of "+n+ " is 72";
    String result = instance.methodReverse_1(n);
    assertEquals(expResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}
```

Snippet of results

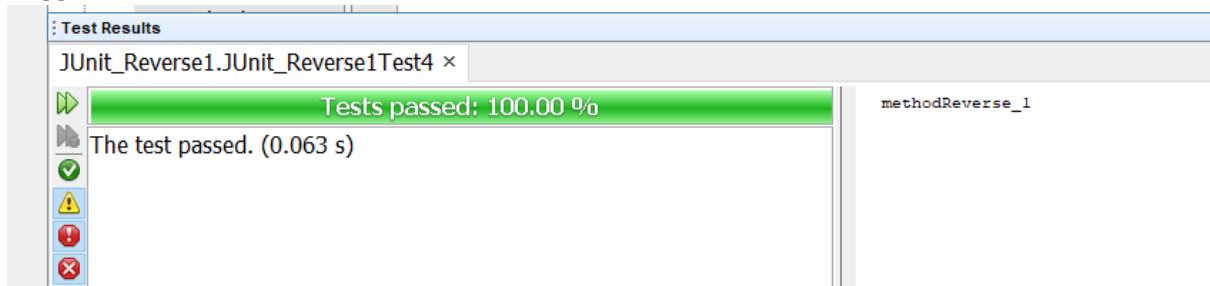


d. Input: 8998

Snippet of test case

```
@Test
public void testMethodReverse_1() {
    System.out.println("methodReverse_1");
    int n = 8998;
    Reverse1 instance = new Reverse1();
    String expectedResult = "The reverse of "+n+ " is 8998";
    String result = instance.methodReverse_1(n);
    assertEquals(expectedResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}
```

Snippet of results

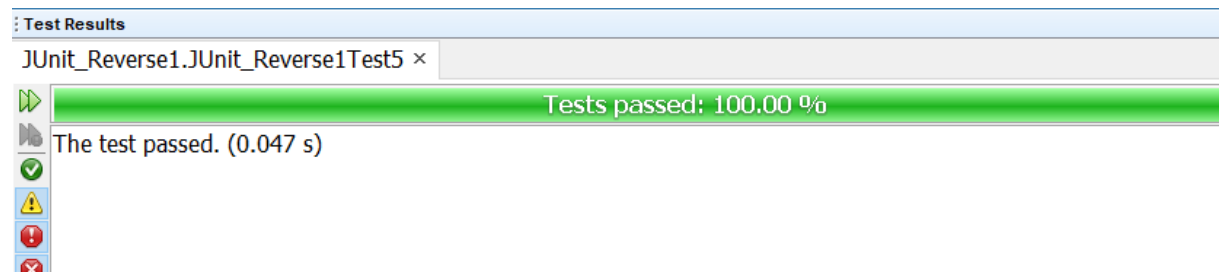


e. Input: 2373

Snippet of test case

```
@Test
public void testMethodReverse_1() {
    System.out.println("methodReverse_1");
    int n = 2373;
    Reverse1 instance = new Reverse1();
    String expectedResult = "The reverse of "+n+ " is 2373";
    String result = instance.methodReverse_1(n);
    assertEquals(expectedResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}
```

Snippet of results

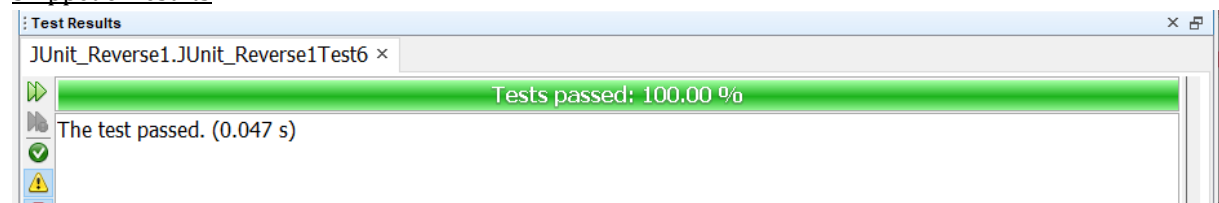


f. Input: 78938

Snippet of test case

```
@Test
public void testMethodReverse_1() {
    System.out.println("methodReverse_1");
    int n = 78938;
    Reverse1 instance = new Reverse1();
    String expectedResult = "The reverse of "+n+ " is 78938";
    String result = instance.methodReverse_1(n);
    assertEquals(expectedResult, result);
    // TODO review the generated test code and remove the default call to fail.
    fail("The test case is a prototype.");
}
```

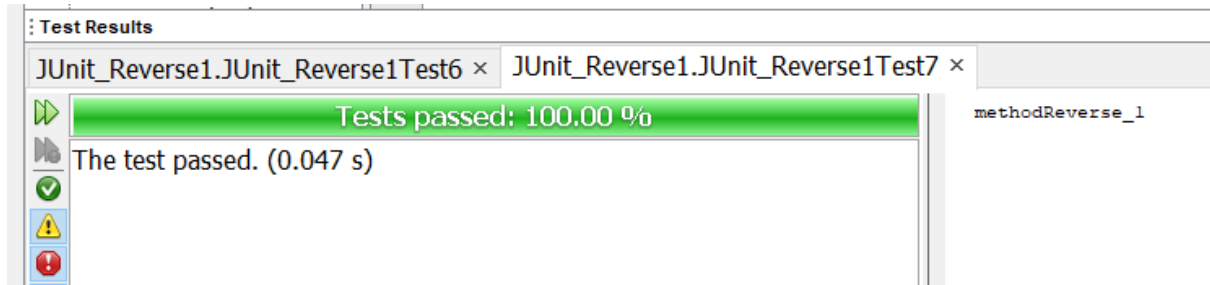
Snippet of results



g. Input: 1834554381

Snippet of test case

```
@Test
public void testMethodReverse_1() {
    System.out.println("methodReverse_1");
    int n = 1834554381;
    Reverse1 instance = new Reverse1();
    String expectedResult = "The reverse of "+n+ " is 1834554381";
    String result = instance.methodReverse_1(n);
    assertEquals(expectedResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}
```


Snippet of results

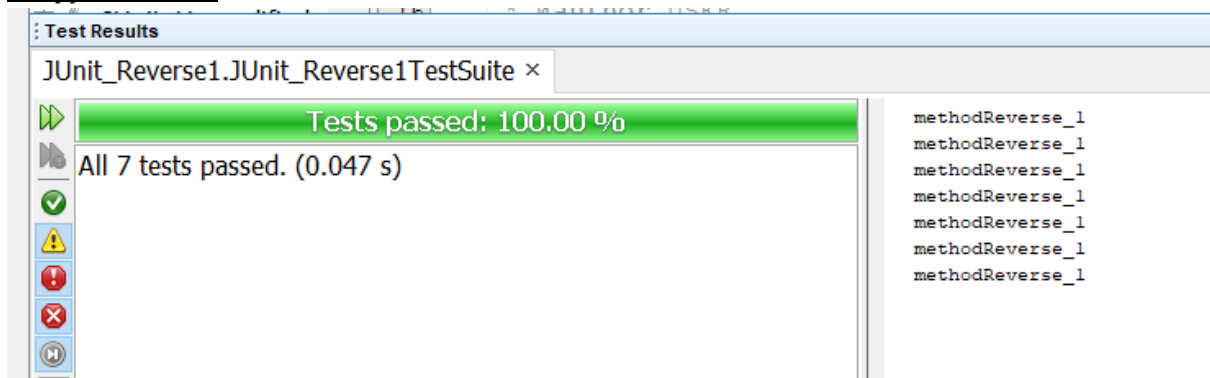
h. TestSuite

Snippet of test case

```
import org.junit.runner.RunWith;
import org.junit.runners.Suite;

@RunWith(Suite.class)
@Suite.SuiteClasses({
    JUnit_Reverse1Test1.class ,
    JUnit_Reverse1Test2.class ,
    JUnit_Reverse1Test3.class ,
    JUnit_Reverse1Test4.class ,
    JUnit_Reverse1Test5.class ,
    JUnit_Reverse1Test6.class ,
    JUnit_Reverse1Test7.class ,
})
public class JUnit_Reverse1TestSuite {

}
```

Snippet of results

II. Testing for Reverse2

```

2.      /*
3.      Kelompok 06 PA2
4.      1.  11321019      Elsaday Sianturi
5.      2.  11321044      Yudhi Purba
6.      3.  11321069      Maria Fransiska Giawa
7.      4.  11321071      Putri Wita Marito
8.
9.      * To change this license header, choose License Headers in Project Properties.
10.     * To change this template file, choose Tools | Templates
11.     * and open the template in the editor.
12.     */
13.     package JUnit_Reverse2;
14.
15.     /**
16.     *
17.     * @author USER
18.     */
19.     public class Reverse2 {
20.         public String methodReverse_2(String original){
21.             String hasil;
22.             String reverse = "";
23.             int length = original.length();
24.             for(int i=length-1; i>0; i--)
25.                 reverse = reverse + original.charAt(i);
26.
27.             hasil = "The reverse of "+original+" is "+reverse;
28.             return hasil;
29.         }
30.     }

```

a. Input: a

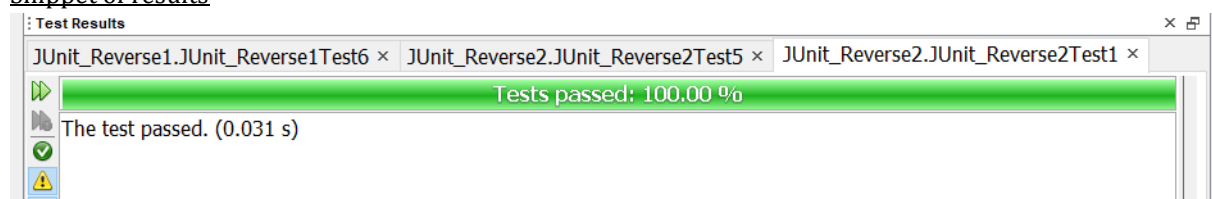
Snippet of test case

```

]      /**
-      * Test of methodReverse_2 method, of class Reverse2.
-      */
-
-      @Test
]      public void testMethodReverse_2() {
-          System.out.println("methodReverse_2");
-          String original = "a";
-          Reverse2 instance = new Reverse2();
-          String expResult = "The reverse of "+original+" is a";
-          String result = instance.methodReverse_2(original);
-          assertEquals(expResult, result);
-          // TODO review the generated test code and remove the default call to fail.
-          //fail("The test case is a prototype.");
-      }
-
-  }

```

Snippet of results



b. Input: is

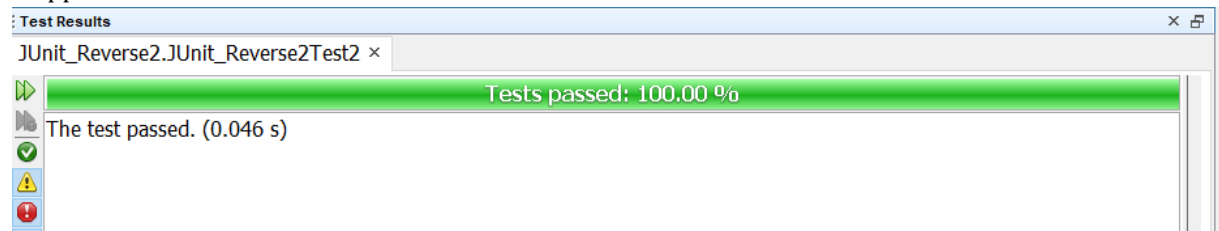
Snippet of test case

```

    */
    @Test
    public void testMethodReverse_2() {
        System.out.println("methodReverse_2");
        String original = "is";
        Reverse2 instance = new Reverse2();
        String expResult = "The reverse of "+original+" is is";
        String result = instance.methodReverse_2(original);
        assertEquals(expResult, result);
        // TODO review the generated test code and remove the default call to fail.
        //fail("The test case is a prototype.");
    }
}

```

Snippet of results



c. Input: isi

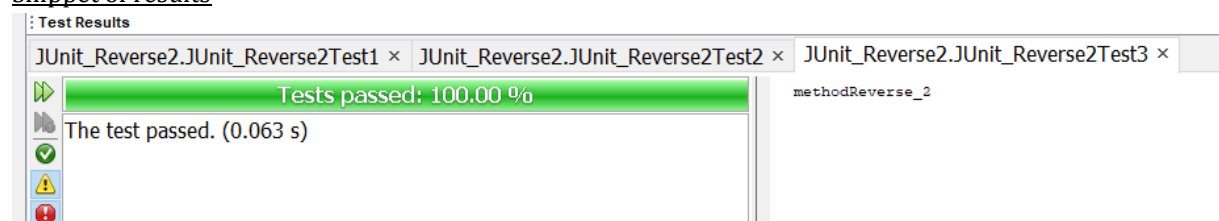
Snippet of test case

```

    */
    @Test
    public void testMethodReverse_2() {
        System.out.println("methodReverse_2");
        String original = "isi";
        Reverse2 instance = new Reverse2();
        String expResult = "The reverse of "+original+" is is";
        String result = instance.methodReverse_2(original);
        assertEquals(expResult, result);
        // TODO review the generated test code and remove the default call to fail.
        //fail("The test case is a prototype.");
    }
}

```

Snippet of results



d. Input: radar

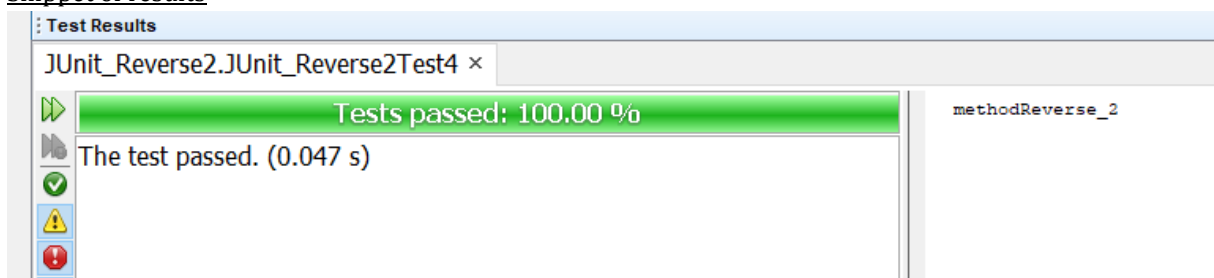
Snippet of test case

```

@Test
public void testMethodReverse_2() {
    System.out.println("methodReverse_2");
    String original = "radar";
    Reverse2 instance = new Reverse2();
    String expResult = "The reverse of "+original+" is rada";
    String result = instance.methodReverse_2(original);
    assertEquals(expResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}
}

```

Snippet of results



e. Input: palindrome

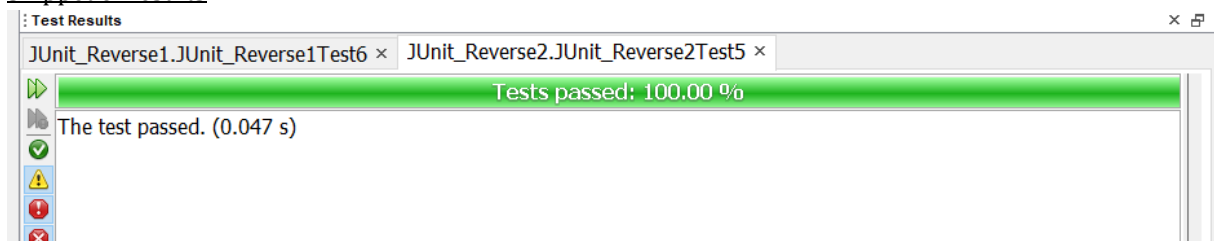
Snippet of test case

```

@Test
public void testMethodReverse_2() {
    System.out.println("methodReverse_2");
    String original = "palindrome";
    Reverse2 instance = new Reverse2();
    String expResult = "The reverse of "+original+" is emordni";
    String result = instance.methodReverse_2(original);
    assertEquals(expResult, result);
    // TODO review the generated test code and remove the default call to fail.
    //fail("The test case is a prototype.");
}
}

```

Snippet of results



f. Input: nababan

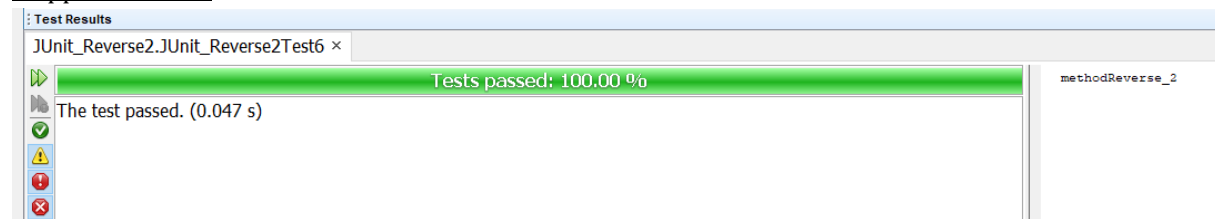
Snippet of test case

```

    /**
     * @Test
     * public void testMethodReverse_2() {
     *     System.out.println("methodReverse_2");
     *     String original = "nababan";
     *     Reverse2 instance = new Reverse2();
     *     String expectedResult = "The reverse of "+original+" is nababa";
     *     String result = instance.methodReverse_2(original);
     *     assertEquals(expectedResult, result);
     *     // TODO review the generated test code and remove the default call to fail.
     *     //fail("The test case is a prototype.");
     * }
     */
}

```

Snippet of results



g. Input: read

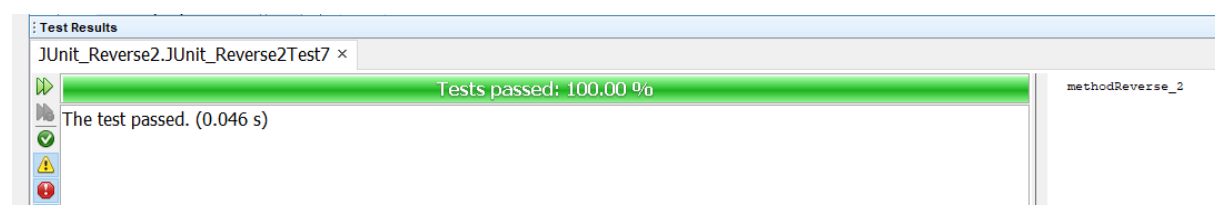
Snippet of test case

```

    /**
     * @Test
     * public void testMethodReverse_2() {
     *     System.out.println("methodReverse_2");
     *     String original = "read";
     *     Reverse2 instance = new Reverse2();
     *     String expectedResult = "The reverse of "+original+" is dae";
     *     String result = instance.methodReverse_2(original);
     *     assertEquals(expectedResult, result);
     *     // TODO review the generated test code and remove the default call to fail.
     *     //fail("The test case is a prototype.");
     * }
     */
}

```

Snippet of results



h. TestSuite

Snippet of test case

```
1 package JUnit_Reverse2;
2
3 /**
4  *
5  * @author USER
6  */
7
8 import org.junit.runner.RunWith;
9 import org.junit.runners.Suite;
10
11 @RunWith(Suite.class)
12 @Suite.SuiteClasses({
13     JUnit_Reverse2Test1.class ,
14     JUnit_Reverse2Test2.class ,
15     JUnit_Reverse2Test3.class ,
16     JUnit_Reverse2Test4.class ,
17     JUnit_Reverse2Test5.class ,
18     JUnit_Reverse2Test6.class ,
19     JUnit_Reverse2Test7.class ,
20 })
21 public class JUnit_Reverse2TestSuite {
22
23 }
```

Snippet of results

The screenshot shows the 'Test Results' window in an IDE. The title bar reads 'JUnit_Reverse2.JUnit_Reverse2TestSuite ×'. The main area has a green header bar with the text 'Tests passed: 100.00 %'. Below this, it says 'All 7 tests passed. (0.047 s)'. On the left side of the window, there is a vertical toolbar with icons for running tests, showing status (pass, fail, error), and navigating between results. On the right side, there is a list of test methods, all of which are 'methodReverse_2'.

Test Method
methodReverse_2
methodReverse_2
methodReverse_2
methodReverse_2
methodReverse_2
methodReverse_2
methodReverse_2