Unit-Testing using JUnit

Reported by:

Team	:	06
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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. }
```

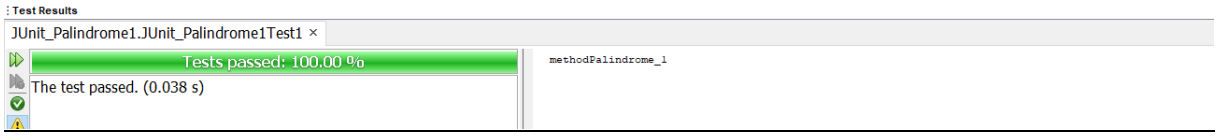
a. Input: 1

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 expResult = "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



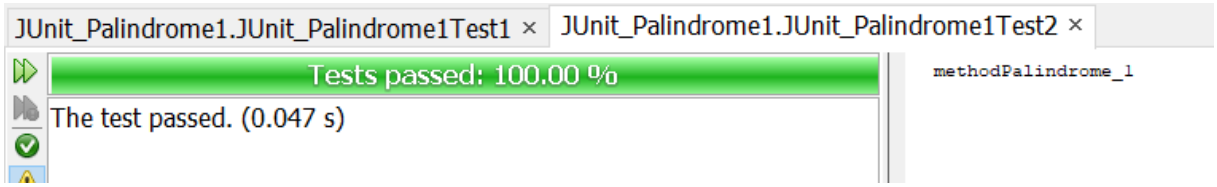
b. Input: 22

Snippet of test case

```
    @Test
    public void testMethodPalindrome_1() {
        System.out.println("methodPalindrome_1");
        int n1 = 22;
        Palindrome1 instance = new Palindrome1();
        String expResult = "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



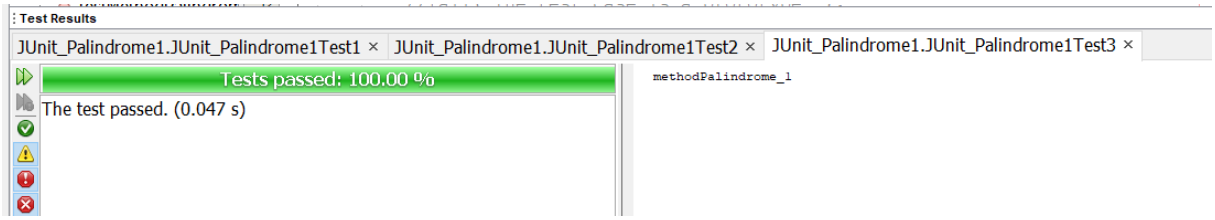
c. Input: 27

Snippet of test case

```
    @Test
    public void testMethodPalindrome_1() {
        System.out.println("methodPalindrome_1");
        int n1 = 27;
        Palindrome1 instance = new Palindrome1();
        String expResult = "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



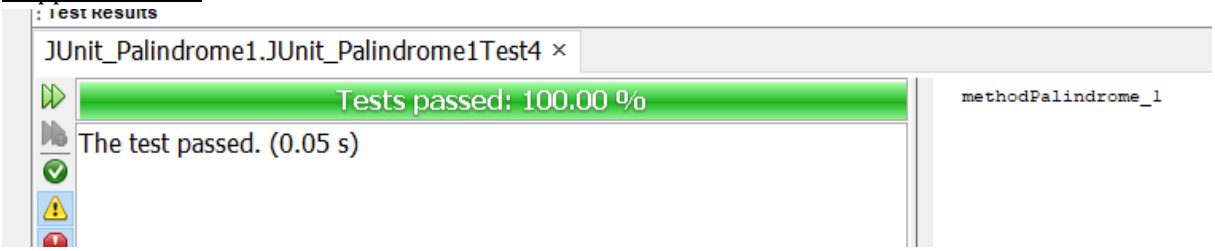
d. Input: 8998

Snippet of test case

```
    @Test
    public void testMethodPalindrome_1() {
        System.out.println("methodPalindrome_1");
        int n1 = 8998;
        Palindrome1 instance = new Palindrome1();
        String expResult = "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



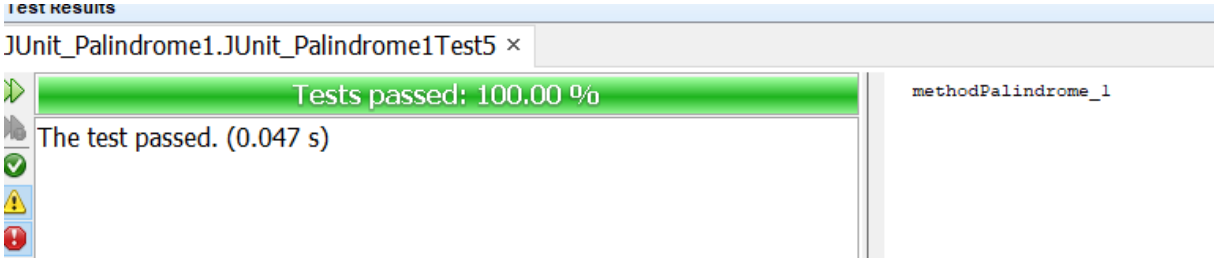
e. Input: 2373

Snippet of test case

```
    @Test
    public void testMethodPalindrome_1() {
        System.out.println("methodPalindrome_1");
        int n1 = 2373;
        Palindrome1 instance = new Palindrome1();
        String expResult = "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



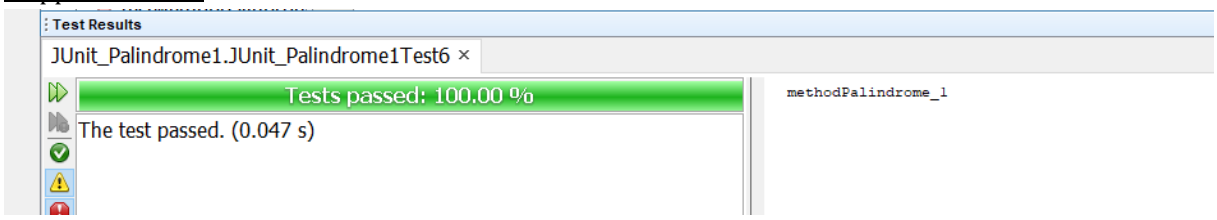
f. Input: 78938

Snippet of test case

```
    @Test
    public void testMethodPalindrome_1() {
        System.out.println("methodPalindrome_1");
        int n1 = 78938;
        Palindrome1 instance = new Palindrome1();
        String expResult = "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



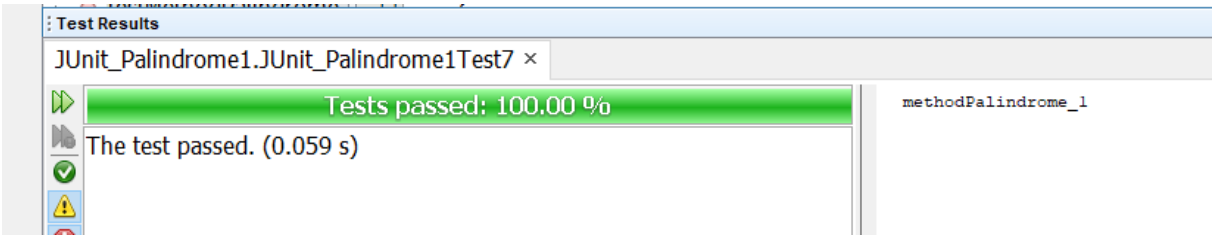
g. Input: 1834554381

Snippet of test case

```
    @Test
    public void testMethodPalindrome_1() {
        System.out.println("methodPalindrome_1");
        int n1 = 1834554381;
        Palindrome1 instance = new Palindrome1();
        String expResult = "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



h. Test Suite

Snippet of test case

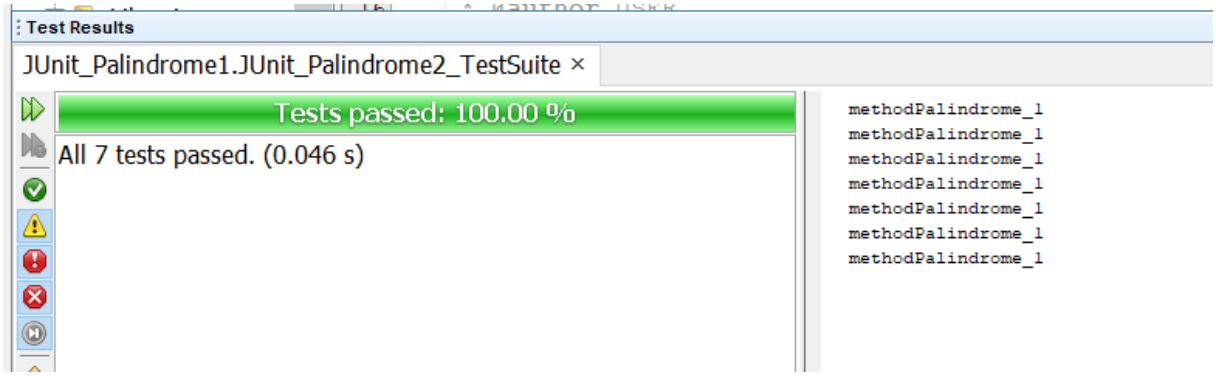
```
package JUnit_Palindrome1;

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

@RunWith(Suite.class)
@Suite.SuiteClasses({
    JUnit_Palindrome1Test1.class ,
    JUnit_Palindrome1Test2.class ,
    JUnit_Palindrome1Test3.class ,
    JUnit_Palindrome1Test4.class ,
    JUnit_Palindrome1Test5.class ,
    JUnit_Palindrome1Test6.class ,
    JUnit_Palindrome1Test7.class ,
})
public class JUnit_Palindrome2_TestSuite {

}
```

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. }
```

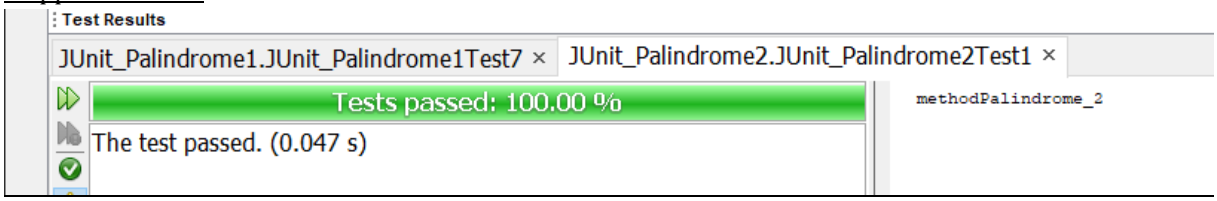
a. Input: a

Snippet of test case

```
    /**
     * 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 expResult = "NOT palindrome string!";
        String result = instance.methodPalindrome_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



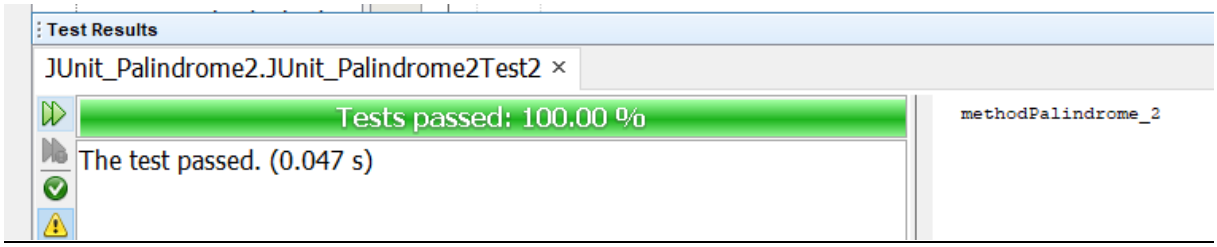
b. Input: is

Snippet of test case

```
     * Test 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 expResult = "NOT palindrome string!";
        String result = instance.methodPalindrome_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



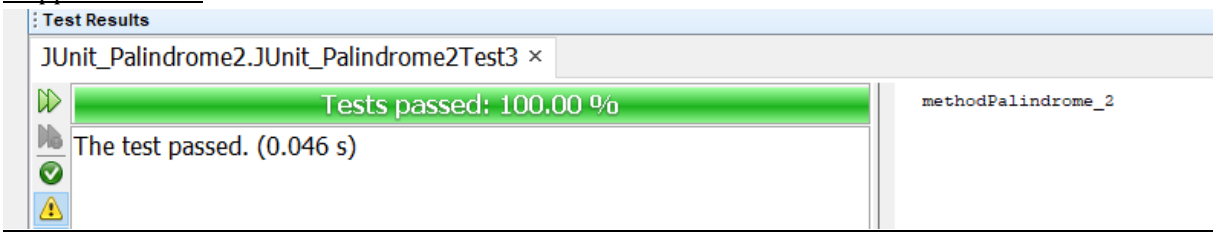
c. Input: isi

Snippet of test case

```
    @Test
    public void testMethodPalindrome_2() {
        System.out.println("methodPalindrome_2");
        String original = "isi";
        Palindrome2 instance = new Palindrome2();
        String expResult = "palindrome string!";
        String result = instance.methodPalindrome_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



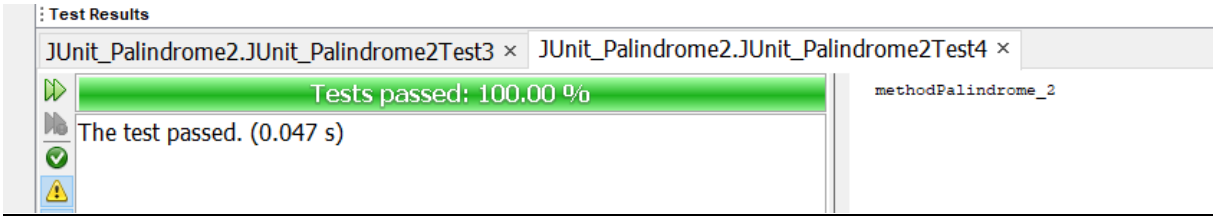
d. Input: radar

Snippet of test case

```
    @Test
    public void testMethodPalindrome_2() {
        System.out.println("methodPalindrome_2");
        String original = "radar";
        Palindrome2 instance = new Palindrome2();
        String expResult = "palindrome string!";
        String result = instance.methodPalindrome_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



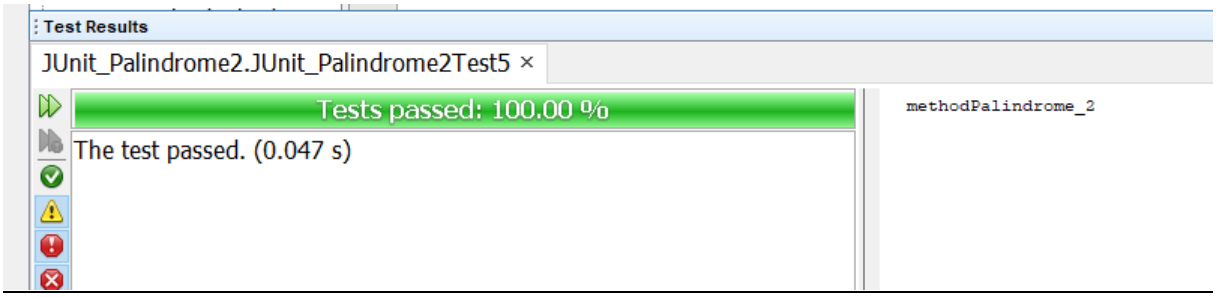
e. Input: palindrome

Snippet of test case

```
    @Test
    public void testMethodPalindrome_2() {
        System.out.println("methodPalindrome_2");
        String original = "palindrome";
        Palindrome2 instance = new Palindrome2();
        String expResult = "NOT palindrome string!";
        String result = instance.methodPalindrome_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



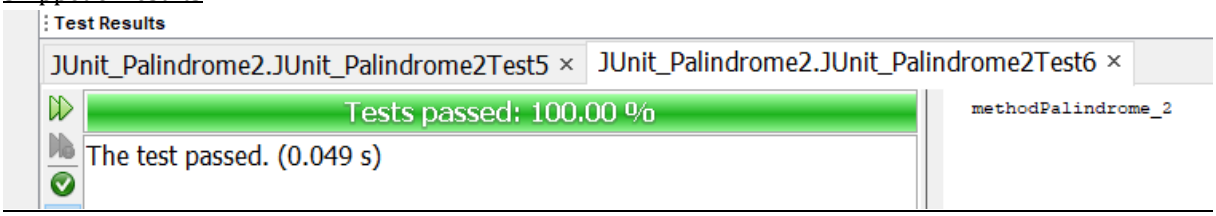
f. Input: nababan

Snippet of test case

```
    @Test
    public void testMethodPalindrome_2() {
        System.out.println("methodPalindrome_2");
        String original = "nababan";
        Palindrome2 instance = new Palindrome2();
        String expResult = "palindrome string!";
        String result = instance.methodPalindrome_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



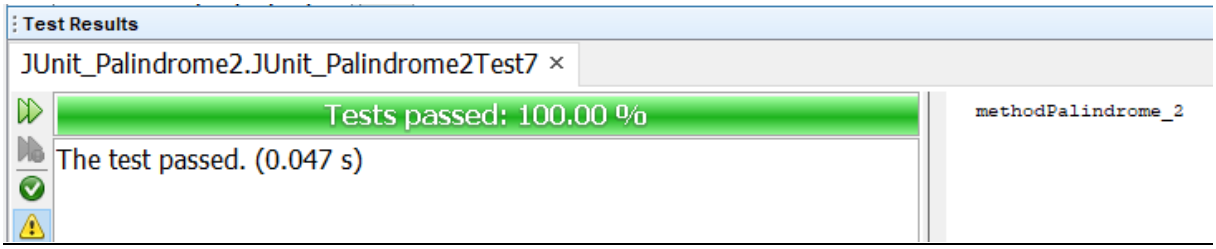
g. Input: read

Snippet of test case

```
     */
    @Test
    public void testMethodPalindrome_2() {
        System.out.println("methodPalindrome_2");
        String original = "read";
        Palindrome2 instance = new Palindrome2();
        String expResult = "NOT palindrome string!";
        String result = instance.methodPalindrome_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. TestSuite

Snippet of test case

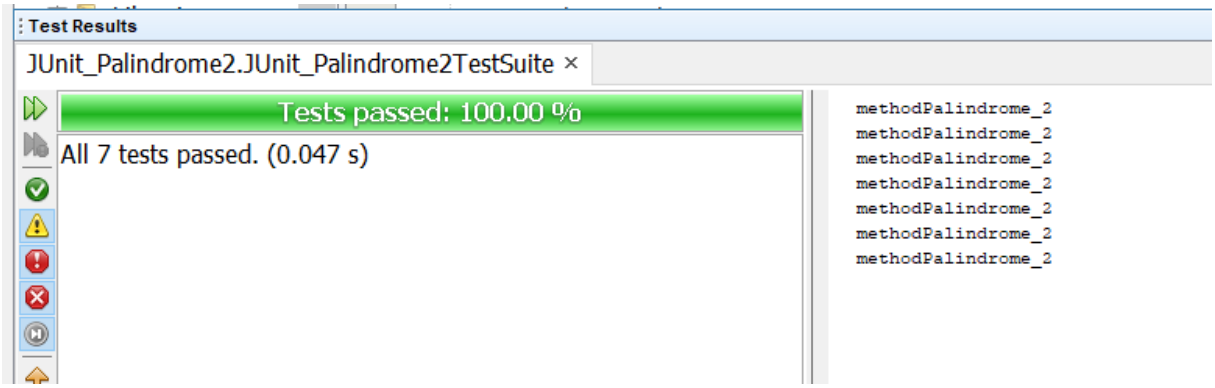
```
package JUnit_Palindrome2;

/**
 *
 * @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.
```

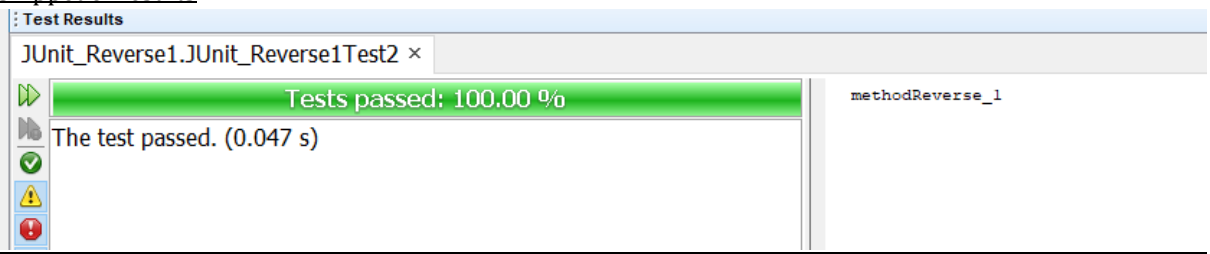
```
13.  import java.io.BufferedReader;
14.  import java.io.InputStreamReader;
15.  /**
16.   *
17.   * @author USER
18.   */
19.  public class Reverse1 {
20.    public String methodReverse_1(int n){
21.      String hasil;
22.      BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
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 expResult = "The reverse of "+n+ " is 1";
    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



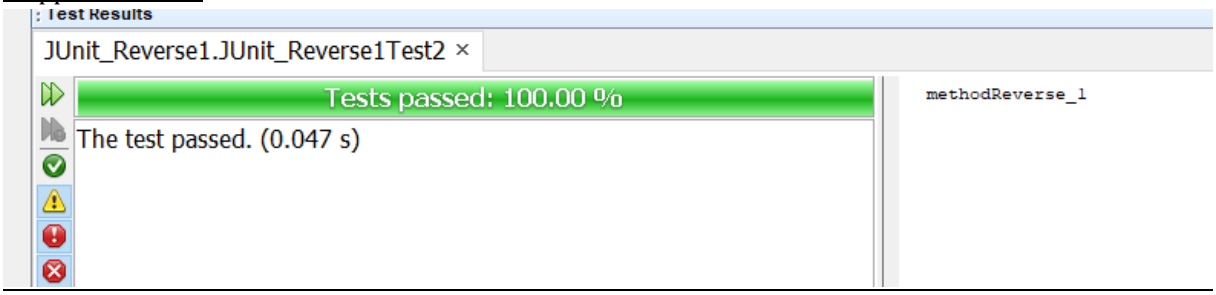
b. Input: 22

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



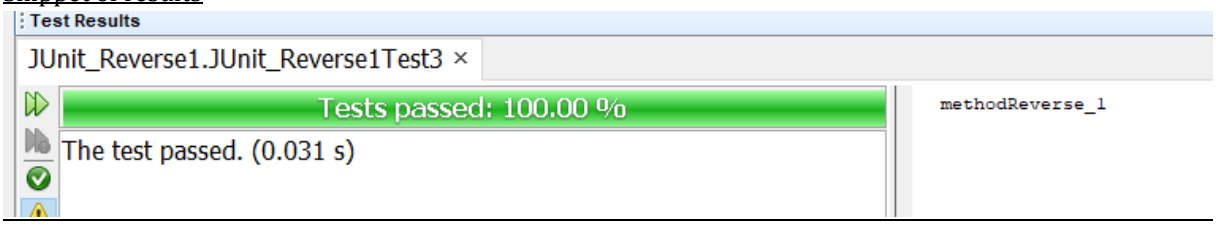
c. Input: 27

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



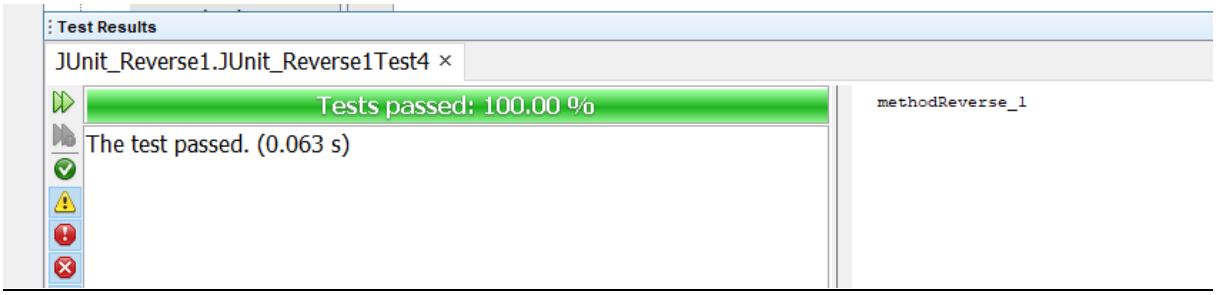
d. Input: 8998

Snippet of test case

```
    @Test
    public void testMethodReverse_1() {
        System.out.println("methodReverse_1");
        int n = 8998;
        Reverse1 instance = new Reverse1();
        String expResult = "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



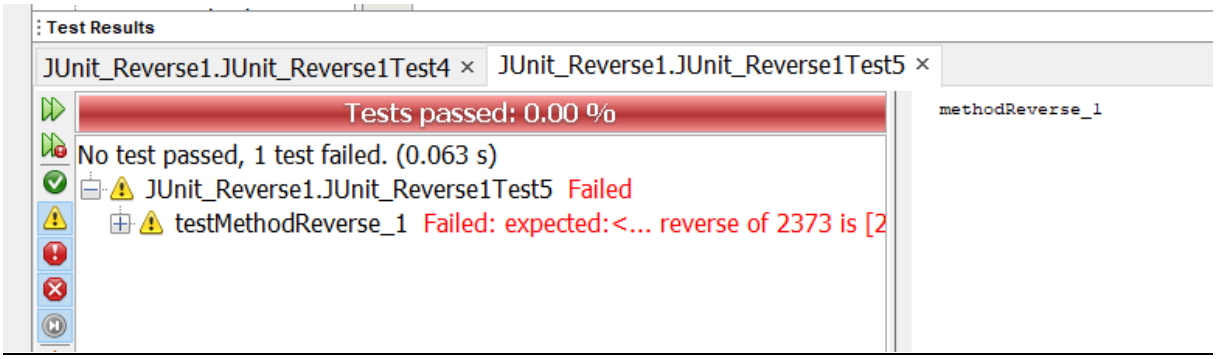
e. Input: 2373

Snippet of test case

```
     */
    @Test
    public void testMethodReverse_1() {
        System.out.println("methodReverse_1");
        int n = 2373;
        Reverse1 instance = new Reverse1();
        String expResult = "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



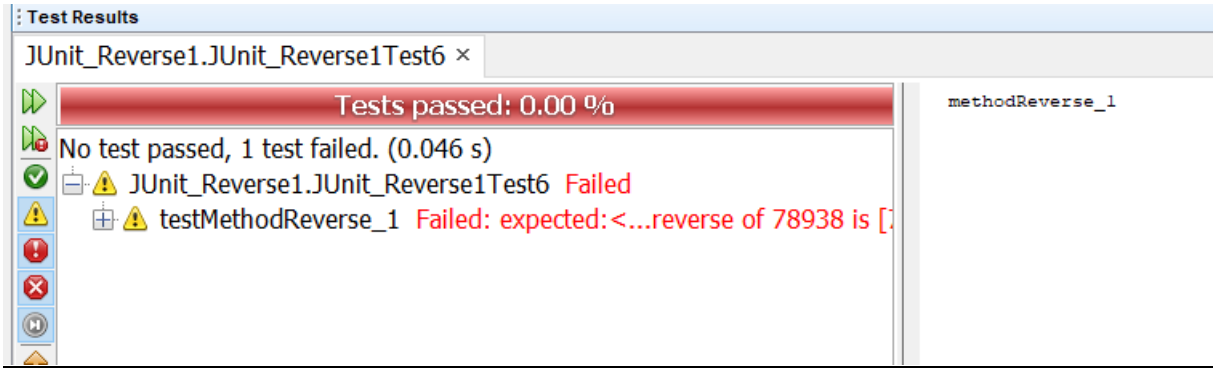
f. Input: 78938

Snippet of test case

```
    @Test
    public void testMethodReverse_1() {
        System.out.println("methodReverse_1");
        int n = 78938;
        Reverse1 instance = new Reverse1();
        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

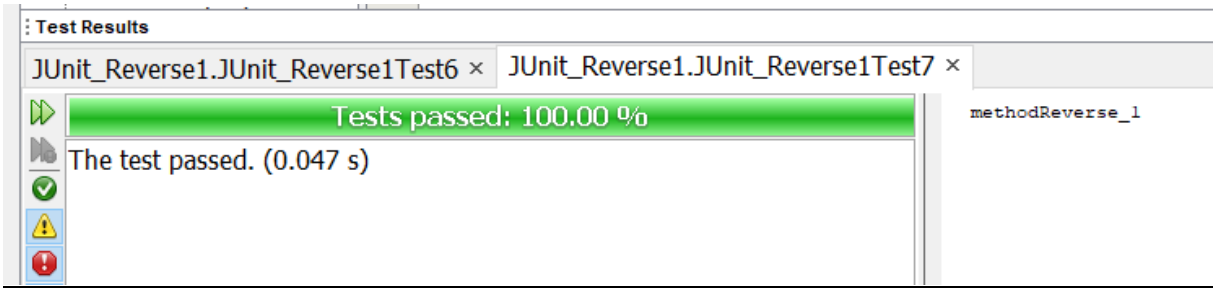


g. Input: 1834554381

Snippet of test case

```
@Test
public void testMethodReverse_1() {
    System.out.println("methodReverse_1");
    int n = 1834554381;
    Reverse1 instance = new Reverse1();
    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.
    //ail("The test case is a prototype.");
}
```

Snippet of results

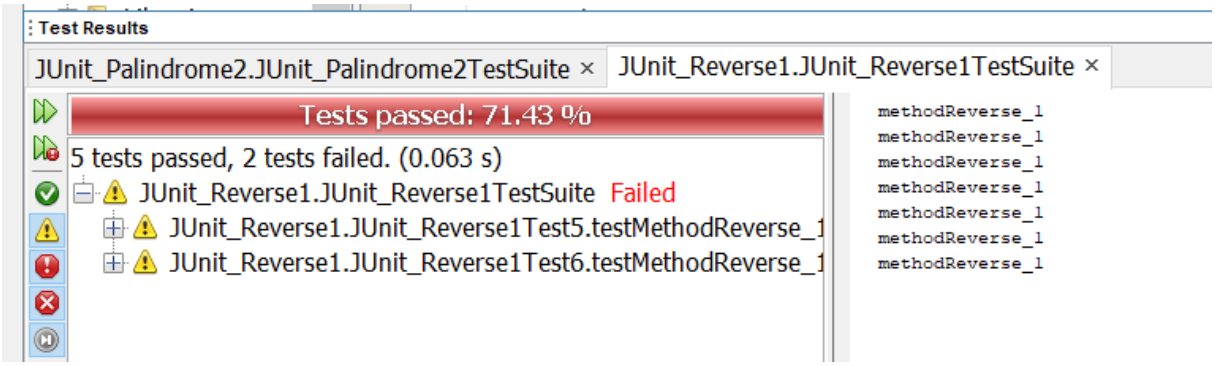


h. TestSuite

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. }
```

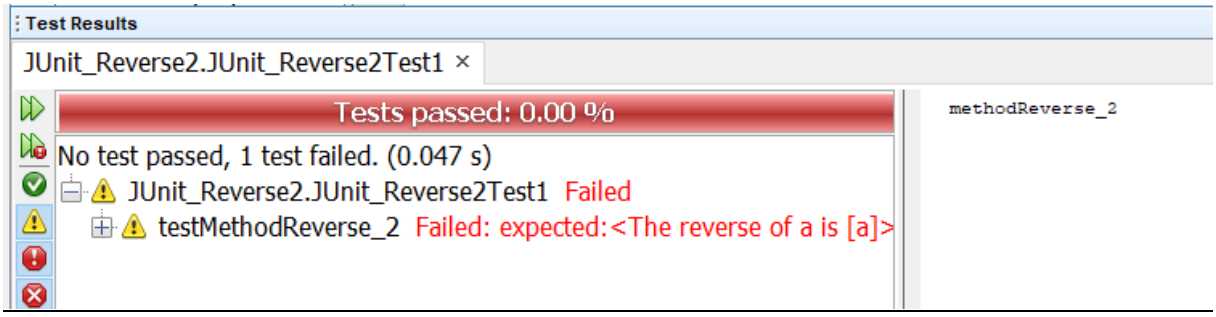
a. Input: a

Snippet of test case

```
    /**
     * 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



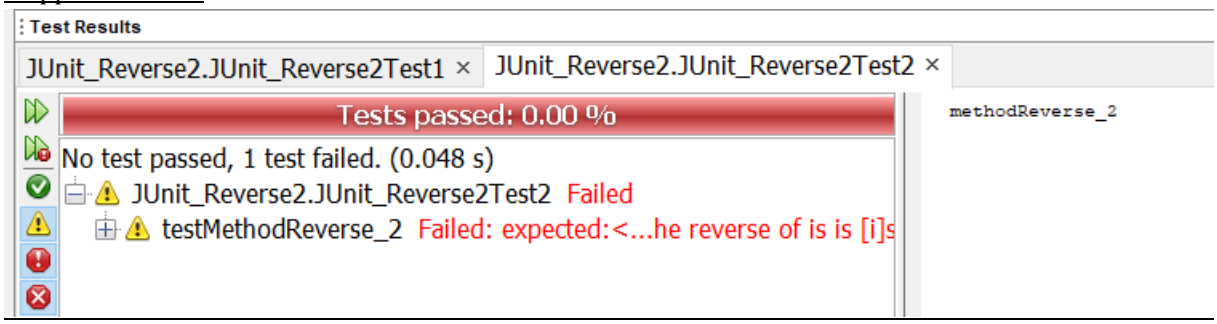
b. Input: is

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



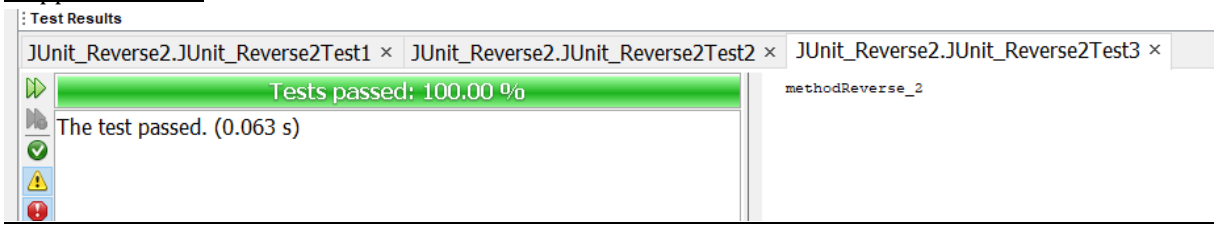
c. Input: isi

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



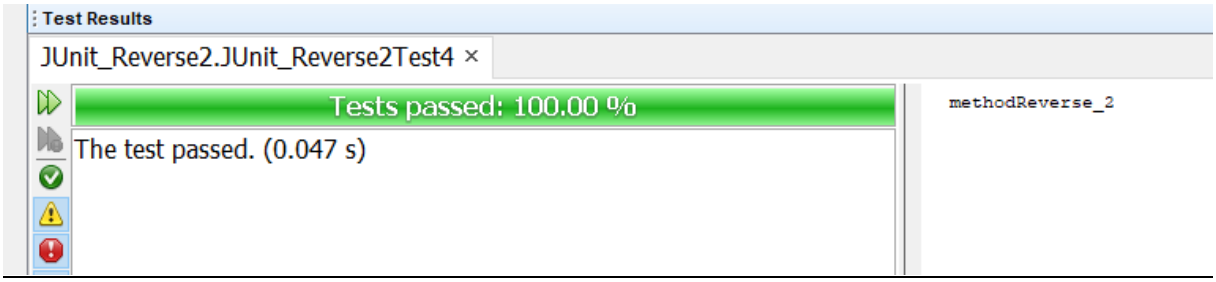
d. Input: radar

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



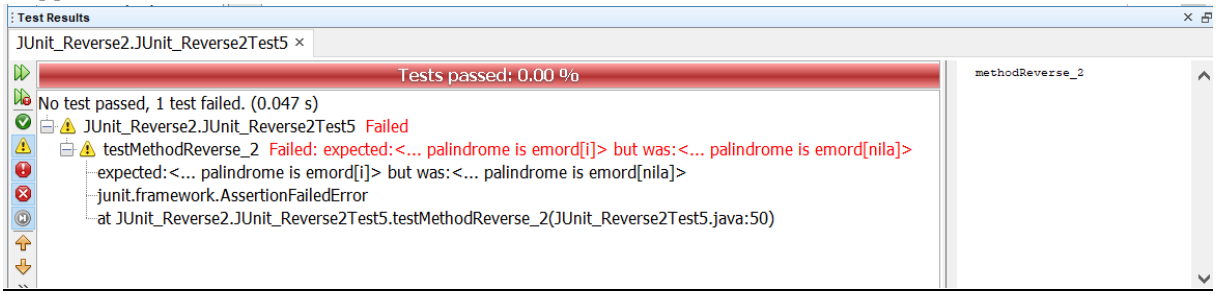
e. Input: palindrome

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 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



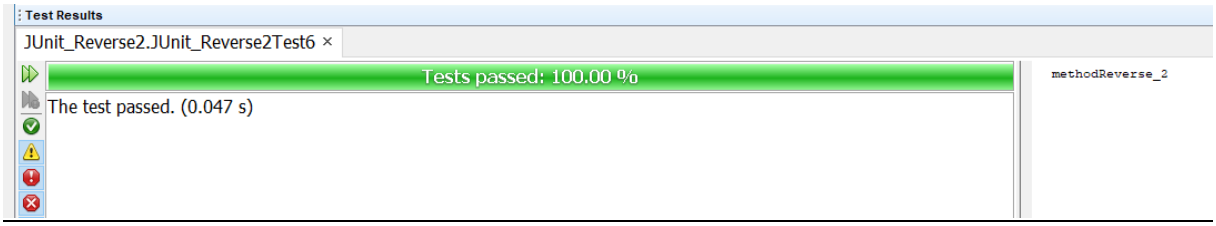
f. Input: nababan

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



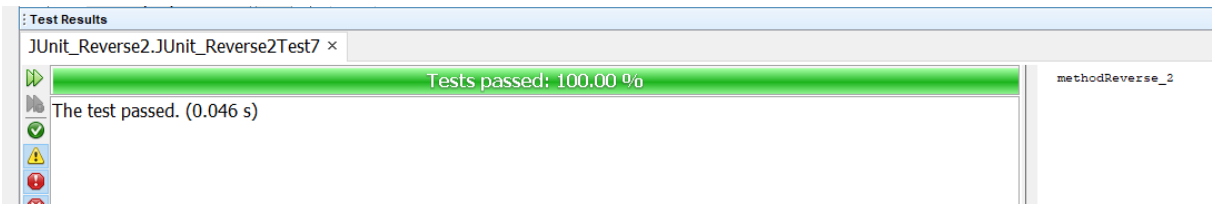
g. Input: read

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

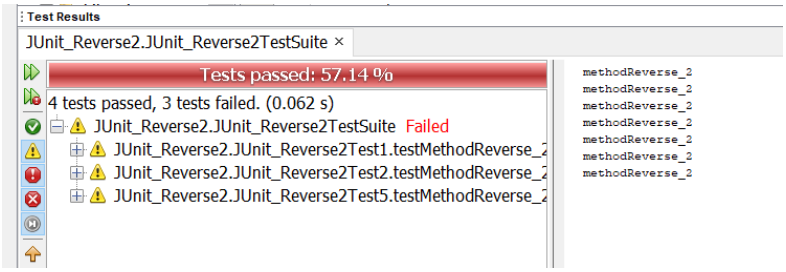


h. Test Suite

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

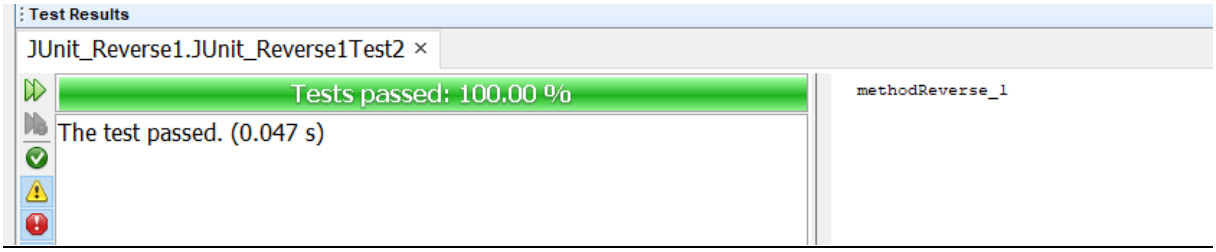
```
1.  /*
2.  Kelompok 06 PA2
3.  1.  11321019    Elsaday Sianturi
4.  2.  11321044    Yudhi Purba
5.  3.  11321069    Maria Fransiska Giawa
6.  4.  11321071    Putri Wita Marito
7.
8.   * To change this license header, choose License Headers in Project Properties.
9.   * To change this template file, 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 expResult = "The reverse of "+n+ " is 1";
    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



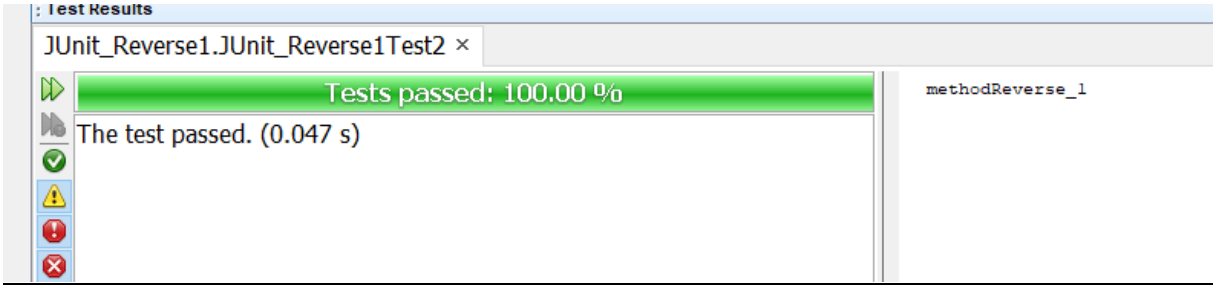
b. Input: 22

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



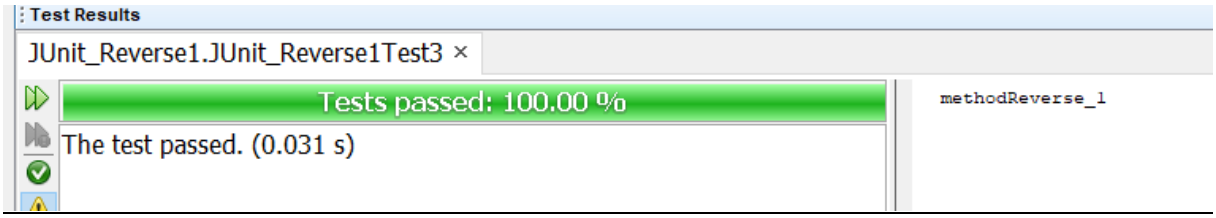
c. Input: 27

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



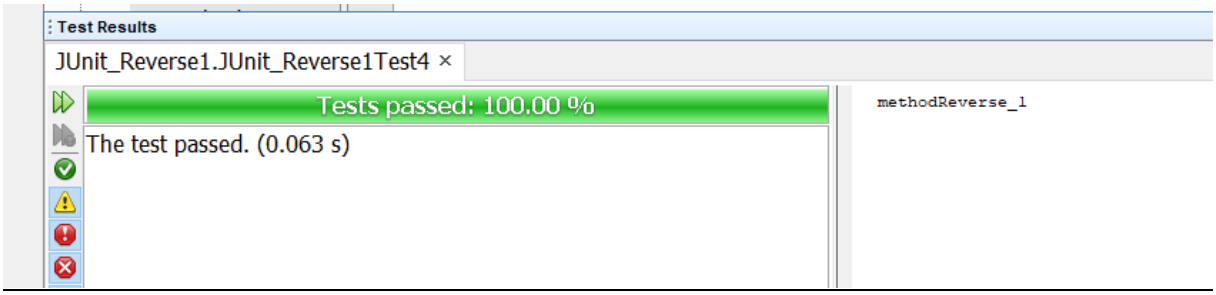
d. Input: 8998

Snippet of test case

```
    @Test
    public void testMethodReverse_1() {
        System.out.println("methodReverse_1");
        int n = 8998;
        Reverse1 instance = new Reverse1();
        String expResult = "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



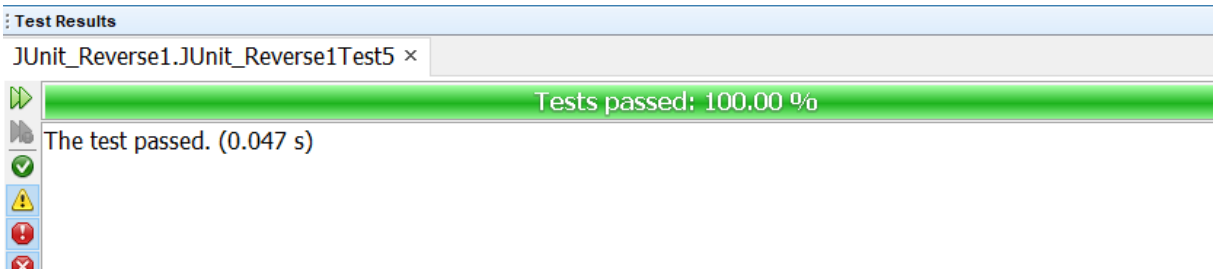
e. Input: 2373

Snippet of test case

```
     */
    @Test
    public void testMethodReverse_1() {
        System.out.println("methodReverse_1");
        int n = 2373;
        Reverse1 instance = new Reverse1();
        String expResult = "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



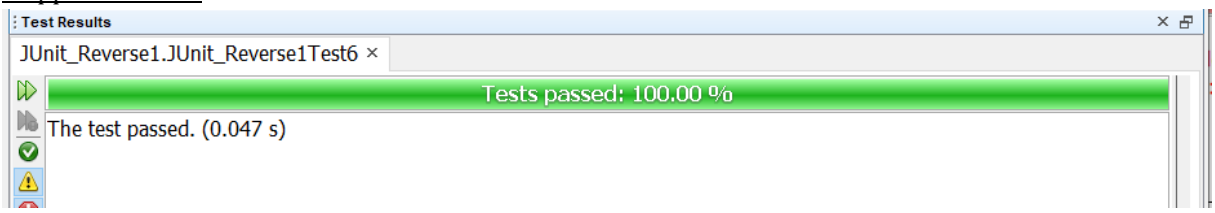
f. Input: 78938

Snippet of test case

```
    @Test
    public void testMethodReverse_1() {
        System.out.println("methodReverse_1");
        int n = 78938;
        Reverse1 instance = new Reverse1();
        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

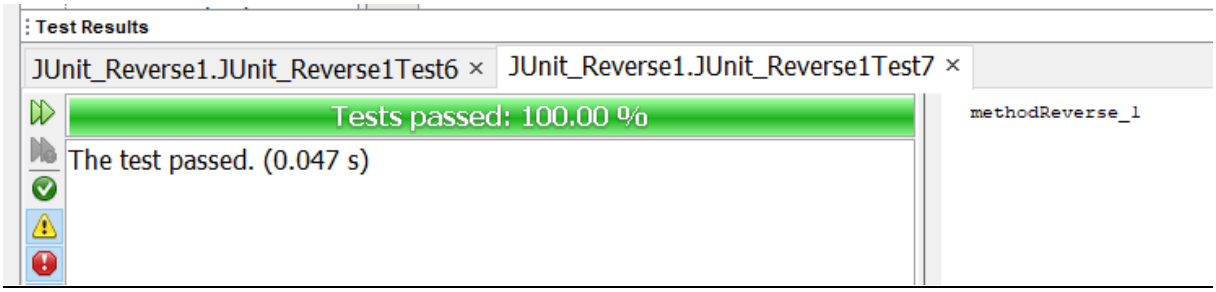


g. Input: 1834554381

Snippet of test case

```
@Test
public void testMethodReverse_1() {
    System.out.println("methodReverse_1");
    int n = 1834554381;
    Reverse1 instance = new Reverse1();
    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.
    //ail("The test case is a prototype.");
}
```

Snippet of results



h. TestSuite

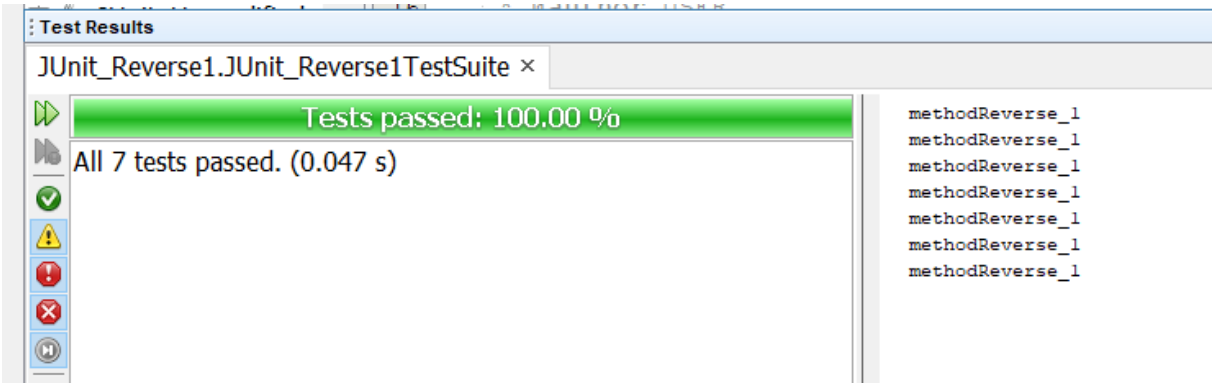
Snippet of test case

```
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. }
```

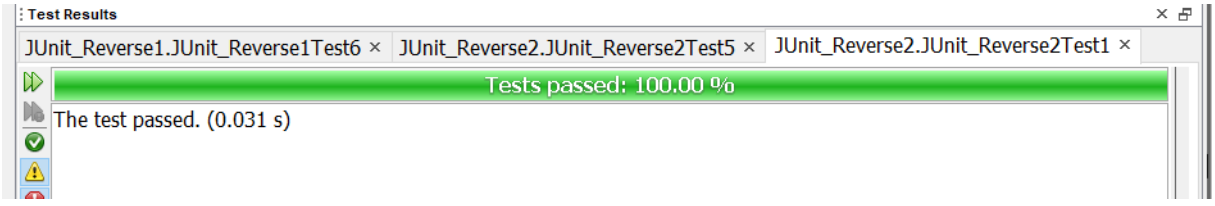
a. Input: a

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



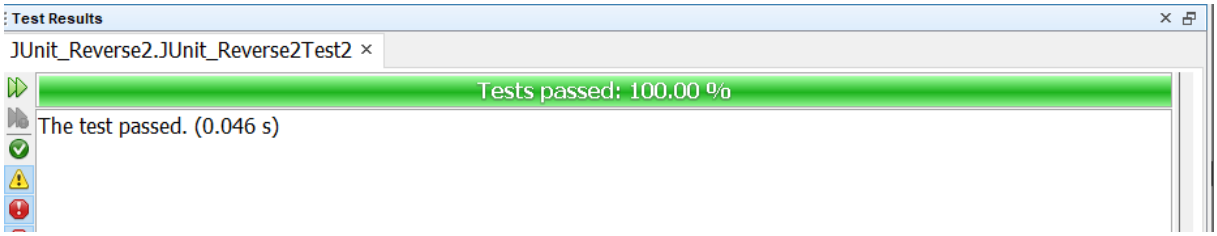
b. Input: is

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



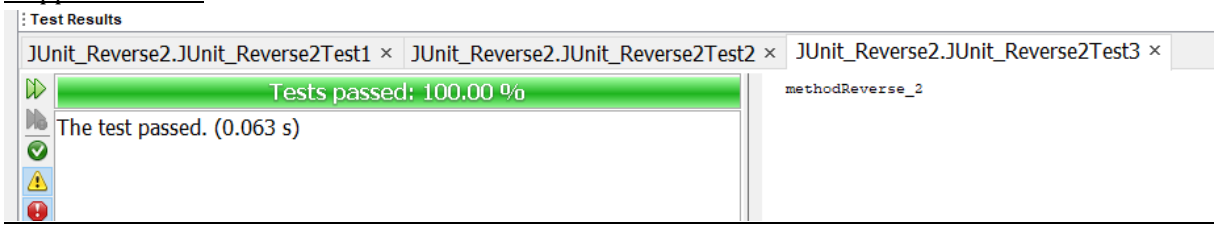
c. Input: isi

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



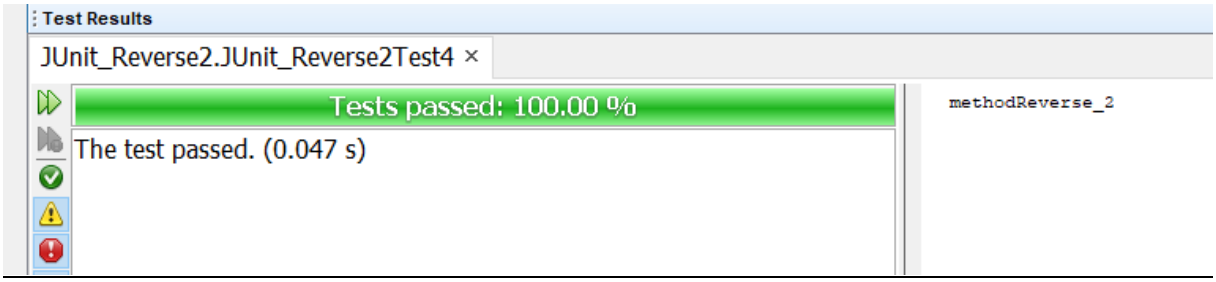
d. Input: radar

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



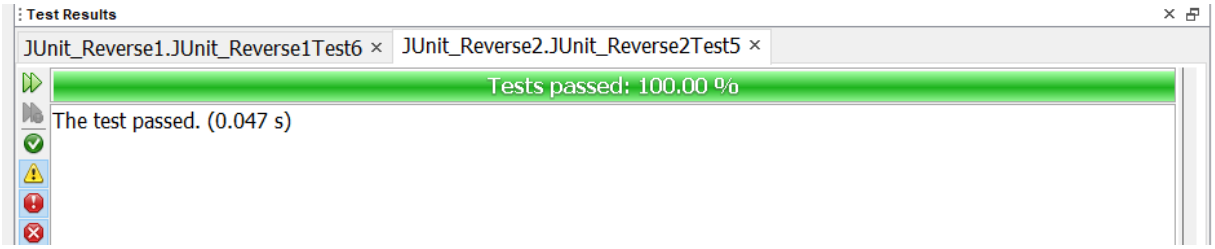
e. Input: palindrome

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 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



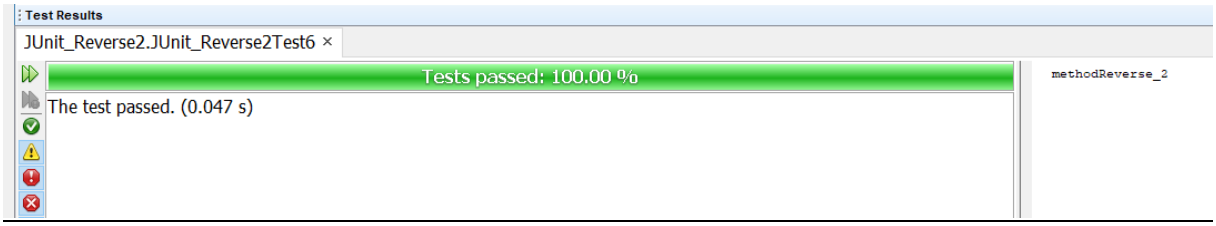
f. Input: nababan

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



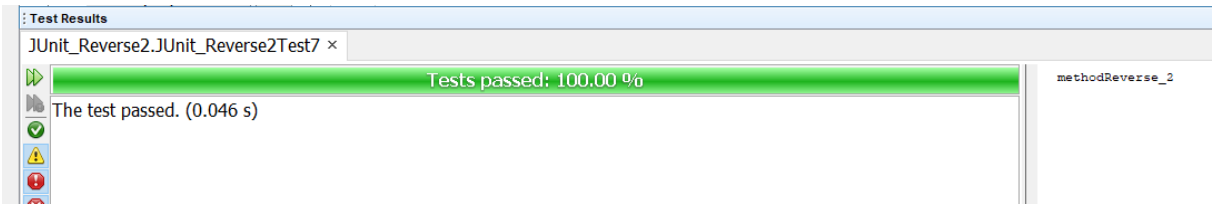
g. Input: read

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. TestSuite

Snippet of test case

```
package JUnit_Reverse2;

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

@RunWith(Suite.class)
@Suite.SuiteClasses({
    JUnit_Reverse2Test1.class ,
    JUnit_Reverse2Test2.class ,
    JUnit_Reverse2Test3.class ,
    JUnit_Reverse2Test4.class ,
    JUnit_Reverse2Test5.class ,
    JUnit_Reverse2Test6.class ,
    JUnit_Reverse2Test7.class ,
})
public class JUnit_Reverse2TestSuite {

}
```

Snippet of results