

# TEST CASES DOCUMENTATION

**Date:** Date the test was documented

**Document Tested:** .java file tested

**Action:** The input of the password

**Expected Results:** The score of the password – invalid or valid password

**Actual Results:** The actual resulting score or if the password is invalid or valid

**Pass / Fail:** Determines if the test passes or fails

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**Password Score: 0 – 5**

**Score 5 Requirements:** Contain at least 9 characters with lowercase and uppercase character(s), number(s), and special character(s)

**Score 4:** Missing at least one requirement from Score 5 Requirements

**Score 3:** Missing at least two requirements from Score 4

**Score 2:** Missing at least three requirements from Score 3

**Score 1:** Only meets one requirement from Score 5

**Score 0:** Input is empty

**TEST CASE 1: PASSWORD.JAVA**

Date	Document Tested	Action	Expected Results	Actual Results	Pass / Fail
4/1	Password.java	<i>null</i>	0	0	Pass
		"a"	1	1	Pass
		"aA"	2	2	Pass
		"aA1"	3	3	Pass
		"aA1!"	4	4	Pass
		"aA1!a"	4	4	Pass
		"aA1!atEstt"	5	5	Pass
		"a "	?	1	?
		"aA1!atE "	?	5	?

**Note:** Would an empty string result in a failed strength check or would an empty string be accepted?

When inputting a few white spaces, we still get a score of 5.

**Valid Password Requirements:** Contain at least 12 characters with lowercase and uppercase character(s), number(s), and special character(s)

**Password Invalid:** If the password does not meet all the requirements listed above

If invalid, the user will get error messages depending on missing requirements:

1. less than 12 characters
2. no special character(s)
3. no upper-case character(s)
4. no number(s)

## TEST CASE 2: TESTERCHECKPASSWORD.JAVA

Date	Document Tested	Action	Expected Results	Actual Results	Pass / Fail
4/6	TesterCheckPassword.java	<i>null</i>	<b>Invalid</b> Error messages: 1, 2, 3, and 4	<b>Invalid</b> Error messages: 1, 2, 3, and 4	Pass
		"a"	<b>Invalid</b> Error messages: 1, 2, 3, and 4	<b>Invalid</b> Error messages: 1, 2, 3, and 4	Pass
		"aB"	<b>Invalid</b> Error messages: 1, 2, and 4	<b>Invalid</b> Error messages: 1, 2, and 4	Pass
		"aB1"	<b>Invalid</b> Error messages: 1 and 2	<b>Invalid</b> Error messages: 1 and 2	Pass
		"aB1!"	<b>Invalid</b> Error messages: 1	<b>Invalid</b> Error messages: 1	Pass
		"aB1!123Ab@123"	<b>Valid</b>	<b>Valid</b>	Pass
		"aB1!123Ab "	?	<b>Valid</b>	?

### TEST CASE 3

**Password Valid Requirements:** Contain at least 12 characters with lowercase and uppercase character(s), number(s), special character(s), and whitespaces subtracts password score

**Password Validation Output to User:** If the password does not meet all the requirements listed above  
The user will get error messages depending on missing requirements:

1. less than 12 characters
2. no special character(s)
3. no upper-case character(s)
4. no number(s)
5. the password has empty spaces or is empty
  - a point will be subtracted per whitespace entered
6. Congrats! Your password is valid!

**Password Strength Category:**

**poor:** password score is less than 15

**fair:** password score is exactly 15

**good:** password score is over 15 but less than 17

**very good:** password score is 17 or more

### TEST CASE 3: TESTERCHECKPASSWORD.JAVA

Date	Action	Expected Results	Actual Results	Pass / Fail	Notes
4/10	<i>null</i>	Strength: poor Output messages: 1, 2, 3, 4	Strength: poor Output messages: 1, 2, 3, 4	Pass	Score: 3, should be 0
	"a"	Strength: poor Output messages: 1, 2, 3, 4	Strength: poor Output messages: 1, 2, 3, 4	Pass	Score: 3, should be 1
	"aB"	Strength: poor Output messages: 1, 2, 4	Strength: poor Output messages: 1, 2, 4	Pass	Score: 3, should be 2
	"aB1"	Strength: poor Output messages: 1 and 2	Strength: poor Output messages: 1 and 2	Pass	
	"aB1!"	Strength: poor Output messages: 1	Strength: poor Output messages: 1	Pass	
	"a "	Strength: poor Output messages: 1, 2, 3, 4, and 5	Strength: poor Output messages: 1, 2, 3, 4, and 5	Pass	
	"aaaaaaaaaaaa"	Strength: fair Output messages: 2, 3, 4	Strength: fair Output messages: 2, 3, 4	Pass	Password length: 12 Score: 15 with a strength of fair but only passed 1 requirement
	"aaaaaaaaaaaaa"	Strength: ? Output messages: 1, 2, 3, 4	Strength: very good Output messages: 1, 2, 3, 4	Pass	Password length: 15 Score: 18 with a strength of very good but passed only 1 requirement
	"abcDEf3!@aaa "	Strength: very good Output messages: 6	Strength: fair Output messages: 6	Pass	Password length: 12 Score: 15 Passed validation but strength validation is only fair – See row above for comparison

## TEST CASE 4

**Password Valid Requirements:** Contain at least 12 characters with lowercase and uppercase character(s), number(s), special character(s), and whitespaces subtracts password score

**Password Validation Output to User:** If the password does not meet all the requirements listed above

The user will get error messages depending on missing requirements:

1. less than 12 characters
2. no special character(s)
3. no upper case character(s)
4. no lower case character(s)
5. no number(s)
6. Congrats! Your password is valid!

**Password Strength Category:**

**poor:** password score is less than 7

**fair:** password score is exactly 7

**good:** password score is between 7 and 9

**very good:** password score is over 9

# TEST CASE 4: TESTERCHECKPASSWORD.JAVA

Date	Action	Expected Results	Actual Results	Pass / Fail	Notes
4/22	<i>null</i>	Strength: poor Output messages: 1, 2, 3, 4, 5	Strength: poor Output messages: 1, 2, 3, 4, 5	Pass	Score: -3
	"a"	Strength: poor Output messages: 1, 2, 3, 4, 5	Strength: poor Output messages: 1, 2, 3, 4, 5	Pass	Score: -1
	"aB1"	Strength: poor Output messages: 1 and 2	Strength: poor Output messages: 1 and 2	Pass	Score: 3
	"aB1!"	Strength: poor Output messages: 1	Strength: poor Output messages: 1	Pass	Score: 5
	"a "	Strength: poor Output messages: 1, 2, 3, 5	Strength: poor Output messages: 1, 2, 3, and 5	Pass	
	"aaaaaaaaaaaaa"	Strength: poor Output messages: 2, 3, 5	Strength: poor Output messages: 2, 3, 5	Pass	
	"abcDEf3!@aaa "	Strength: fair Output messages: 6	Strength: fair Output messages: 6	Pass	Score: 7 Password length: 12
	"Testing1!extRA#"	Strength: good Output messages: 6	Strength: good Output messages: 6	Pass	Score: 9 Password length: 15
	"Testing1!extRA#chAr"	Strength: very good Output messages: 6	Strength: very good Output messages: 6	Pass	Score: 10 Password length: 19