# Programming Project 2 – RamString Test Plan

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| Test ID | Method Tested | Parameters (Test Data) | Test Rationale | Expected Change | Actual Change |
| 1 | getEveryThirdCharacter () | “Rodney, the Ram” | Test on default string value | returns  “dytR” | Returns  “dytR” |
| 2 | IsValidVCUEmail | "rram23" | Test on a input that doesn’t have “@vcu.edu” | false | false |
| 3 | RamString() |  | Tests default | “Go Rams! Go CS@VCU” | “Go Rams! Go CS@VCU” |
| 4 | RamString(String wackyString) | “Rodney, the Ram” | Tests parameterized constructor | “Rodney, the Ram” | “Rodney, the Ram” |
| 5 | RamString(String wackyString) | null | Tests parameterized constructor for null | Illegal  Argument  Exception | Illegal  Argument  Exception |
| 6 | setWackyString(String wackyString) | “Rodney, the Ram” | Tests setter method | “Rodney, the Ram” | “Rodney, the Ram” |
| 7 | setWackyString(String wackyString) | null | Tests setter method for null | Illegal  Argument  Exception | Illegal  Argument  Exception |
| 8 | getWackyString() | “Rodney, the Ram” | Tests getter method | “Rodney, the Ram” | “Rodney, the Ram” |
| 9 | getEvenorOddCharacters(String  evenOrOdd) | “Rodney, the Ram”  “even” | Tests method when entered even | “ony h a” | “ony h Rm” |
| 10 | getEvenorOddCharacters(String  evenOrOdd) | “Rodney, the Ram”  “odd” | Tests method when entered odd | “Rde,term” | “Rde,term” |
| 11 | getEvenorOddCharacters(String  evenOrOdd) | “Rodney, the Ram”  “whatever” | Tests method when neither “even” or “odd” is entered | Illegal  Argument  Exception | Illegal  Argument  Exception |
| 12 | getEvenorOddCharacters(String  evenOrOdd) | “Rodney, the Ram”  “EvEn” | “Tests if parameter is case sensitive” | “ony h a” | “ony h a” |
| 13 | getEveryThirdCharacter () | “” | Tests on empty string value | “” | “” |
| 14 | getEveryThirdCharacter () | “ it is so much fun” | “Tests if space is considered a first character | “tsocf” | “tsocf” |
| 15 | countDoubleDigits() | “0000” | Tests Quadruple Digit | 0 | 0 |
| 16 | countDoubleDigits() | “000” | Tests Triple Digit | 0 | 0 |
| 17 | countDoubleDigits() | “00 000 0000” | Tests if method works | 1 | 1 |
| 18 | countDoubleDigits() | “00 11 33 444” | “Tests if counts for double spaces” | 3 | 3 |
| 19 | isValidVCUEmail() | “123@vcu.edu” | Tests if statement | True | true |
| 20 | isValidVCUEmail() | “123@mymail.vcu.edu” | Tests if statements | True | true |
| 21 | StandardizedPhoneNumber() | “My favorite number is 11” | Tests a non phone number | “This Wacky String is not a phone number” | “This Wacky String is not a phone number” |
| 22 | StandardizedPhoneNumber() | “571-402-7450” | Tests a phone number | “(571) 402-7450” | “(571) 402-7450” |
| 23 | StandardizedPhoneNumber() | My # is 7738769000 | Test string of 10 digits | “(773) 876-9000” | “(773) 876-9000” |
| 24 | StandardizedPhoneNumber() | 12345678912345 | Tests string of more than 10 digits | “This Wacky String is not a phone number” | “This Wacky String is not a phone number” |
| 25 | ramifyString() | “000” | Tests 3 zeros | “000” | “CS@VCUGo Rams” |
| 26 | ramifyString() | “00” | Tests 2 zeros | “CS@VCU” | “CS@@VCU” |
| 27 | ramifyString() | “0hey” | Tests in string | “Go Ramshey” | “Go Ramshey” |
| 28 | ramifyString() | “0h00hey” | Tests both | “Go Ramsh”CS@VCU” | “Go Ramsh”CS@VCU” |
| 29 | ramifyString() | “hows it1 going” | Tests non zeros | “hows it1 going” | “hows it1 going” |
| 30 | convertDigitsToRomanNumerals  InSubstring(int startPosition, int  endPosition) | “490”  (1,3) | “Tests if method works | “IVIX0” | “IVIX0” |
| 31 | convertDigitsToRomanNumerals  InSubstring(int startPosition, int  endPosition) | “H4Y”  (300, 4) | Tests for Illegal argument Exception | Illegal  Argument  Exception | Illegal  Argument  Exception |
| 32 | convertDigitsToRomanNumerals  InSubstring(int startPosition, int  endPosition) | “NO”  (-1,-1) | Test for out of bounds exception | Out of Bounds Exception | Out of Bounds Exception |
| 33 | convertDigitsToRomanNumerals  InSubstring(int startPosition, int  endPosition) | “Go Off Que14en”  (8,15) | Tests for out of bunds exception | Out of Bounds Exception | Out of Bounds Exception |