

## System Test Plan for SecretMessage

The text in bold in the **Description** column represents the test inputs to the program. You can stop program execution by pressing Ctrl+C. You will need to fill in your Actual Results and write the four additional tests (highlighted in yellow).

Test ID	Description	Expected Results	Actual Results
Test Invalid Option (J) (EC, R) Author: Dr. Schmidt	<i>Preconditions:</i> SecretMessage program started  Do you want to (E)ncrypt or (D)ecrypt message? <b>J</b> Enter message: <b>Hello</b>	Invalid option.	Invalid option
Test Encrypt - Message containing only letters with length of five (EC, R) Author: Dr. Schmidt	<i>Preconditions:</i> SecretMessage program started  Do you want to (E)ncrypt or (D)ecrypt message? <b>e</b> Enter message: <b>Hello</b>	Hlloe	Hlloe
Test Decrypt - Message containing only letters with length of five (EC, R) Author: Dr. Schmidt	<i>Preconditions:</i> SecretMessage program started  Do you want to (E)ncrypt or (D)ecrypt message? <b>decrypt</b> Enter message: <b>Hlloe</b>	Hello	Hello
Test Encrypt - Message containing only letters with length of two (EC, R, B) Author: Dr. Schmidt	<i>Preconditions:</i> SecretMessage program started  Do you want to (E)ncrypt or (D)ecrypt message? <b>E</b> Enter message: <b>Hi</b>	Hi	Hi

Test ID	Description	Expected Results	Actual Results
Test Decrypt - Message containing only letters with length of two (EC, R, B) Author: Bryson Brading	<p><i>Preconditions:</i> SecretMessage program started</p> <p>Do you want to (E)ncrypt or (D)ecrypt message? <b>D</b></p> <p>Enter message: <b>Hi</b></p>	Hi	Hi
Test Encrypt- Message containing only letters with length of six (EC, R) Author: Benjamin Uy	<p><i>Preconditions:</i> SecretMessage program started</p> <p>Do you want to (E)ncrypt or (D)ecrypt message? <b>E</b></p> <p>Enter message: <b>Wordle</b></p>	dWleor	dWleor
Test Decrypt - Message containing only letters with length of six (EC, R) Author: Benjamin Uy	<p><i>Preconditions:</i> SecretMessage program started</p> <p>Do you want to (E)ncrypt or (D)ecrypt message? <b>D</b></p> <p>Enter message: <b>dWleor</b></p>	Wordle	Wordle
Test Encrypt - Message containing first character digit with length of four (EC, R) Author: Bryson Brading	<p><i>Preconditions:</i> SecretMessage program started</p> <p>Do you want to (E)ncrypt or (D)ecrypt message? <b>E</b></p> <p>Enter message: <b>5Hey</b></p>	yH5e	yH5e
Test Decrypt - Message containing first character digit with length of four (EC, R)	<p><i>Preconditions:</i> SecretMessage program started</p> <p>Do you want to (E)ncrypt or (D)ecrypt message? <b>D</b></p> <p>Enter message: <b>yH5e</b></p>	5Hey	5Hey

## Notes

Message: Hello

1. **Swap characters** First and last characters are letters, swap first and last characters: oellH
2. **Move character** oelHl
3. **Swap substrings** Length is odd and not divisible by three, leave middle character and swap substrings before and after: Hlloe

Therefore, the encrypted version of Hello is Hlloe.