**General path:**

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| # | Test Case | Input | Expected result | PASS/FAIL |
|  | User starts the game | None | User is shown the alphabet, with the encoded quote | PASS |
|  | User makes a correct guess, from\_letter is lowercase, to\_letter is lowercase | Quote= “DOG”  Encoded = “KLJ”  Guessed = “\_ \_ \_”  From\_letter = ‘k’  To\_letter =’d’ | Guessed is now  “D \_ \_”  User is shown alphabet, alphabet guesses,  Encoded quote,  And encoded quote guesses | PASS |
|  | User makes a guess, from\_letter and to\_letter are both uppercase | Quote= “DOG”  Encoded = “KLJ”  Guessed = “D \_ \_”  From\_letter = ‘L’  To\_letter =’O’ | Guessed is now  “D O \_”  User is shown alphabet, alphabet guesses,  Encoded quote,  And encoded quote guesses | PASS |
|  | User enters the last letter incorrectly | Quote= “D O G”  Encoded = “K L J”  Guessed = “D O \_”  From\_letter = ‘J’  To\_letter =’T’ | Guessed is now  “D O T”  User is told that their word is incorrect. They are re-prompted to enter a letter | PASS |
|  | User replaces their bad letter with the correct letter | Quote= “D O G”  Encoded = “K L J”  Guessed = “D O T”  From\_letter = ‘J’  To\_letter =’G’ | Guessed in now  ‘D O G’  User is told their word is correct, the decoded word is show, as well as the amount of time it took them to complete the word. They are asked if they want to play again | PASS |
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**Input path**

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| # | Test Case | Input | Expected result | PASS/FAIL |
|  | User starts the game | None | User is shown the alphabet, with the encoded quote | PASS |
|  | User makes an incorrect guess, | Quote= “D O G”  Encoded = “K L J”  Guessed = “\_ \_ \_”  From\_letter = ‘k’  To\_letter =’O’ | Guessed is now  “O \_ \_”  User is shown alphabet, alphabet guesses,  Encoded quote,  And encoded quote guesses | PASS |
|  | User fixes their mistake by entering “!” as from\_letter or to\_letter | Quote= “DOG”  Encoded = “KLJ”  Guessed = “O \_ \_”  From\_letter = ‘!’ | Any wrong letters guessed get corrected. Any letters not yet guessed stay the same.  Guessed is now  “D \_ \_”  User is shown alphabet, alphabet guesses,  Encoded quote,  And encoded quote guesses | PASS |
|  | User enters “?” as from\_letter or to\_letter | Quote= “D O G”  Encoded = “K L J”  Guessed = “D \_ \_”  From\_letter = ‘?’ | A random letter gets properly decoded. It is also shown in the alphabet  Guessed is now  “D O \_”  User is shown alphabet, alphabet guesses,  Encoded quote,  And encoded quote guesses | PASS |
|  | User enters “quit” as from\_letter or to\_letter | Quote= “D O G”  Encoded = “K L J”  Guessed = “D \_ \_”  From\_letter = ‘quit’ | The game ends, the user is asked if they want to play again. If they type “n” or nothing, the game exits. If they type y, they get a new word and the game restarts | PASS |
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| # | Test Case | Input | Expected result | PASS/FAIL |
|  | User starts the game | None | User is shown the alphabet, with the encoded quote | PASS |
|  | User guesses all the letters wrong | Quote= “DOG”  Encoded = “KLJ”  Guessed = “O K P” | Guessed is now  “O K P”  User is shown alphabet, alphabet guesses,  Encoded quote,  And encoded quote guesses | PASS |
|  | User types “!” as from\_letter or to\_letter | Quote= “DOG”  Encoded = “KLJ”  Guessed = “O K P”  From\_letter = “!” | All guessed letters are fixed (all the letters In the word). The user is told they have guessed all the letters correctly, and are asked if they want to play again | PASS |
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