Test Plan

**Dictionary**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Method** | **Test Data** | **Expected Result** | **Actual Result** | **Pass** | **Notes** |
| Add()/readInTranslation() | English: German:  Hello Hallo  Rabbit Hase  Animal Tier | Hallo  Hase  Tier | Hallo  Hase  Tier | Y | 80,000 words have been read into the binary tree using the add() and readInTranslation() methods. Therefore searching for the English translation should return the german translation. |
| DeleteNode()  findParent()  getReplacement | Hello Hallo |  |  |  | FindParent() and getRaplcement() work in conjuction with DeleteNode and that’s why they are part of the same test. |
| Search() | Hello  Rabbit  Animal | Hallo  Hase  Tier | Hallo  Hase  Tier | Y | The fact that it returns the correct translation shows that the search() method is working as expected. |
| Print() |  | The whole of the binary tree is printed out in the terminal. | The whole of the binary tree is printed out in the terminal | Y |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Method** | **Test Data** | **Expected Result** | **Actual Result** | **Pass** | **Notes** |
| processUserChoices() | Press A:  Press D: Press S:  Press P:  Press B  Press Q | Runs add()  Runs delete  Runs search  Runs print  Runs save  Closes program | Runs add()  Runs delete  Runs search  Runs print  Runs save  Closes program | Y | A and D ask the user for input parameters for the methods. |
| displayMenu() |  | Displays the menu | Displays the menu | Y |  |
| Time() |  |  |  |  |  |
| Pause() |  | Asks the user to press enter before clearing the screen. | Asks the user to press enter before clearing the screen. | Y |  |
| ClearScreen() |  | Clears the scrren | Clears the screen | Y |  |
| Print() |  | The whole of the binary tree is printed out in the terminal. | The whole of the binary tree is printed out in the terminal. | Y |  |
| Exit() |  | Closes the program | Closes the program | Y |  |