# Test Plans

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AC12001 Team Project: Translator

Test number/date/version: 13/03/17 – 27/03/17

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| **Test Description** | **Test Data** | **Expected result** | **Worked?** |
| Add nodes to the DictionaryTree and then print them inorder | Number of words and their translations | Words displayed sorted by ASCII codes | Y |
| Search the DictionaryTree by providing a word’s ASCII code (ID) | ID of a word | Return true if found, or false | Y |
| Adding words and their translations to custom external files | “hello”, “bonjour” | The two external files now contain “hi” and “bonjour” respectively | Y |
| Removing words from custom external files, then select “Y” |  | Word and its translation get removed from the two external custom files | Y |
| Removing words from custom external files, then select “N” |  | Allows to select a different word to delete | Y |
| Removing words from custom external files, then select “Q” |  | Return to menu without deleting the words | Y |
| Removing words from custom external files, when file is empty |  | Error message | Y |
| Translate a word (in either direction), word is in dictionary | “house”, “bateau” | Correct translations; “maison”, “boat” | Y, generally |
| Translate a word, word is NOT in dictionary (made up) | “xoxl” | Error message | Y |
| French words consisting of multiple “words” get translated correctly and not literally | “au revoir”, “après midi” | Translation is not word by word; “bye”, “afternoon” (latter as 1 word!) | Y |
| Sentences in French get translated correctly | “Mon bateau est bleu” | “My boat is blue”, | Y, generally |
| Sentences in English get translated correctly | “The sea is calm today” | “ La mer est calme aujourd'hui ” | Y, generally |
| Dictionary loads in a short time from files, when the program starts running (tree is balanced) | Dictionary files | Loading takes only a few seconds and both files are loaded in correctly | Y |
| Menu runs, and can access all methods and passes on correct values |  | Functions of the program can all be accessed from the menu | Y |