

CIS 22C Group Project

Team 2 — Test Plan

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1. Add a new record to the database.
 - (a) Select option 1
 - (b) Follow the prompts, and add a record that doesn't already exist in the database.
 - (c) Select option 3 (search) and follow prompts to prove that new record exists in hash table.
 - (d) Select option 5 (BST printout) and follow prompts to prove that new record exists in the BST.
2. Delete a record from the database.
 - (a) Select option 7 to show hash table metadata *before* deletion.
 - (b) Select option 2, and input name of a record to be deleted from the database.
 - (c) Select option 2 again, and try to remove the item again.
 - (d) Select option 5 to verify removal from BST.
 - (e) Select option 3 and use it to verify removal from hash table.
 - (f) Select option 7 to show hash table metadata *after* deletion.
3. Insert a synonym into the database, to demonstrate collision resolution.
 - (a) Select option 1, and add an item with a country name that's a corruption of another. Say "Romania" becomes "ainamoR" (due to ASCII case-sensitivity)
 - (b) Basically repeat the first test to prove that the synonym was successfully added to the database.
4. [Required Easter Egg] Display team member names
 - (a) Enter hidden option 42. Voila
5. Demonstrate Binary Search Tree orders items correctly.

- (a) Select option 5. This prints out an in-order traversal of the langTree, which is a BST of the data sorted by the secondary key, *recognized language*.
- (b) Manually input and delete a few records, then reprint the tree to show that they are getting added and deleted from the BST properly.