

Cycle 3 Testing

Use Cases

1. Add member to database

Question	Name	Suffix	Are they married?	Parents in database?	Any Children?
Options	New name	Yes	Yes	0	0
	Duplicate name	No	No	1	1
				2	2

2. Search for member in tree

Question	Multiple members with same name	Member exists	Still alive?
Options	Yes	Yes	Yes
	No	No	No - death information

3. Find Parents

Question	Name	Any parents?
Options	Unique name	0
	Duplicate	1
		2

4. Find Children

Question	Children exist?	How many children
Options	Yes	0
	No	1
		2

5. Find Siblings

Question	Siblings exist?	How many siblings	Twins?
Options	Yes	0	Yes
	No - only child	1	No
		2	

Test Plan (Specific test cases):

1. Add Member:
 - a. New Person, Married, No Parents - Adding Spouse
 - i. Lisa Holt, Husband: Walter Jay Smith III, No Parents
 - ii. Born: 2/10/1900, Death: 8/12/1956, Marriage: 9/8/1934 in Houston
 - iii. Print Out R3 , Success: New Person added (P9), relationship updated
 - b. Duplicate, Not Married, Both Parents - Adding Child
 - i. Sally Smith, No Spouse, Parents: Dick Johnson III & Christine Betty Smith
 - ii. Born 8/26/2008, in Flint
 - iii. Print out R9, Success: Relationship updated to add spouse Lisa Holt
2. Search Member:
 - a. Name found
 - i. Dick Johnson Jr.
 - ii. Print out P1, Success: correct Person, Dick Johnson found in tree
 - b. Not found
 - i. Nancy Cook
 - ii. Print out Not Found/ Error, Test fail
3. Find Parents:
 - a. Duplicate Name, One Parent
 - i. John Smith,(p16) Henry Smith
 - ii. Print out

Test Reports/ Results:

1a. Full success. No changes required. Lisa Holt was successfully added along with married to a currently added member, Walter Jay Smith III.

1b. Full success. No changes required. Sally Smith was successfully added under R9 with the parents as Dick Johnson III and Christine Betty Smith.

2a. Success. Dick Johnson Jr. was found. However, it takes slightly longer to find due to one extra step required to find the correct Dick Johnson. Because we have four different Dick Johnsons, we must copy and paste the correct one in the final step. No code changes will be made as we can find the correct Dick Johnson without error.

2b. Full Success. After searching for Nancy Cook by first name, no one was found. The same happened after searching with last name. Nancy Cook does not exist in our csv file and our program does not find Nancy Cook.

3a. Success/failure. Henry Smith (P18) was easy to find. Both parents successfully showed up on the search. However, searching for John Smith (p16) failed to pull up either parents due a specific bug that we have not been able to fix. Since the wife of the relationship is null, our getwife() method fails and throws an exception.

Due to the circumstances of having a bug that has not been able to be fixed for a couple months now, no changes will be made.

Changes to Code:

None. The one failed test case is due to a bug that has been problematic since the beginning. Unfortunately, this bug has had no answer for a long time now. The other test cases had minor inconveniences but, beyond that, were much more successful and do not require any changes.