Demonstration Test Plan

1. Hashtable
   1. Hash function
      1. X – show statistics
      2. L – list
         1. G – good table
         2. B – bad table
         3. Note: clustering in bad table
         4. Q
      3. A – insert robots
         1. QWEQWEQWE – finish insert procedure
         2. ASDASDASD – finish insert procedure
         3. ZXCZXCZXC – finish insert procedure
         4. RTYRTYRTY – finish insert procedure
         5. FGHFGHFGH – finish insert procedure
         6. VBNVBNVBN – finish insert procedure
         7. Q
      4. X – show statistics
      5. L – list
         1. G – good table
         2. B – bad table
         3. Note: collision difference between tables
         4. Q
   2. Collision Resolution and Search after Synonym deletion.
      1. Note: ASDASDASD cluster in good table
      2. A – insert synonym robot
         1. SDASDASDA
         2. Q
      3. L – list
         1. G – good table
         2. note cluster again and position of SDASDASDA
         3. Q
      4. D – remove
         1. ASDASDASD – delete original synonym
         2. Q
      5. S – search
         1. pSDASDASDA – search by primary key for second synonym
         2. Q
      6. L – list
         1. G – show good table again
         2. Q
2. Binary Search Trees
   1. Searching by secondary key.
      1. S – search
         1. sAstromech – show all 'Astromech' models
         2. Q
      2. D – remove
         1. ASMRD0507 – remove robot that's not first on the list
         2. Q
      3. S – search
         1. sAstromech – show all 'Astromech' models again
         2. Note: removed 'Astromech' does not show again
         3. Q
      4. L – list
         1. P – sorted by primary key (first BST)
         2. S – sorted by secondary key (second BST)
         3. Q
      5. Demonstrate more robot removals.
3. File IO
   1. Note: W to write to default input, and Q for default output.
      1. W – writes to defaultInput.txt to be read on next run.
      2. Q – saves to defaultOutput.txt anyway
   2. Rerun Program
      1. X – show statistics
      2. L – list
         1. G – good hash table
         2. Q
      3. Q