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| **Project Name: Aegis Project 1: Voting System Team#7** | |
| **Test Stage: Unit X System \_** | **Test Date:** 3/27/21 |
| **Test Case ID#:** Helper\_3 | **Name(s) of Testers:** Michael/Donald/Lucky/Grant |
| **Test Description:**  Tests that the string input taken for  an IRballot returns the correct index  if it’s supposed to. |  |
| **Automated: yes X no \_\_\_** | **Indicate where you are storing the tests (what file) and the name of the method/functions being used.**  Stored in file:  Method names:   * BallotToVec() |
| **Results: Pass \_\_X\_\_\_** Fail **\_\_\_\_\_\_\_\_** |  |
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| **Preconditions for Test:**  The strings and int are set up correct as well as any other variables. | |

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| **Step**  **#** | **Test Step**  **Description** | **Test**  **Data** | **Expected**  **Result** | **Actual**  **Result** | **Notes** |
|  |  |  |  |  |  |
| 1 | Test that BallotToVec when given 0 for num returns an empty vector | int num\_0 = 0;  std::string empty = “”; | 0 | 0 |  |
| 2 | Test that BallotToVec returns a vector full of 0s when given an empty string but num > 0. | int num\_5 = 5;  std::string empty = “”; | 5 | 5 |  |
| 3 | Test that the elements of a vector with num = 5 and ballot = “” results in a vector full of 0s. | int num\_5 = 5;  std::string empty = “”; | {0,0,0,0,0} | {0,0,0,0,0} |  |
| 4 | Test that the elements of a vector with num = 5 and ballot = “,,,,” also results in a vector full of 0s. | int num\_5 = 5;  std::string empty\_ballot = “,,,,”; | {0,0,0,0,0} | {0,0,0,0,0} |  |
| 5 | Test that the elements of a vector with num = 5 and ballot = “1,,,,” results in a vector of {1,0,0,0,0}. | int num\_5 = 5;  std::string first\_pos = “1,,,,”; | {1,0,0,0,0} | {1,0,0,0,0} |  |
| 6 | Test that the elements of a vector with num = 5 and ballot = “,,,,1” results in a vector of {0,0,0,0,1} | int num\_5 = 5;  std::string last\_pos = “,,,,1”; | {0,0,0,0,1} | {0,0,0,0,1} |  |
| 7 | Test that the elements of a vector with num = 5 and ballot full of 1s results in a vector of 1s | int num\_5 = 5;  std::string full = “1,1,1,1,1”; | {1,1,1,1,1} | {1,1,1,1,1} |  |
| 8 | Test that the elements of a vector with num = 5 and ballot = “1,2,3,4,5” results in a vector of {1,2,3,4,5} | int num\_5 = 5;  std::string vary = “1,2,3,4,5” | {1,2,3,4,5} | {1,2,3,4,5} |  |

**Post condition(s) for Test:** 

The value returned should be a vector representing the ballot string given to it with correct vector size.