# Test Plan – Vote Count

Necessary cases to test will vary by problem.

As a starting point, write a test plan that looks for:

* the typical cases for the problem given
* the boundary conditions on all input values
* invalid inputs

Show the input sequence for a given case, and list the expected output.

| Test Cases | |
| --- | --- |
| **Description** | **Given Input (in bold) and Expected Output** |
| Typical case(s)   * There are more A’s than B’s | **How many votes?** 10  **ABAABBAAAB**  A |
| * There are more B’s than there are A’s | **How many votes?** 6  **ABABBB**  B |
| * There are the same amount of B’s as A’s | **How many votes?** 14  **ABAABBABABABAB**  Tie |
| * There were supposed to be more voters than there were inputted | **How many votes?** 10  **ABAABBAAA**  Error |
| * There were supposed to be less votes than there were inputted | **How many votes?** 11  **ABAABBAAABBB**  Error |
|  |  |
| Boundary condition(s)   * There can be no less than one vote | **How many votes?** 1  **A**  A |
| * There can be no more than 15 votes | **How many votes?** 15  ABABABABABABBAB  B |
| Invalid input(s) | How many votes? **Foo**  How many votes? **12**  **ABABABABABBA**  Error |
| * There cannot be more than 15 votes | How many votes? **17**  How many votes? **15**  **ABABABABABABAA**  A |
| * There cannot be less than 1 vote | How many votes? **0**  How many votes? **1**  **A**  A |