

test.OrbitElements2TLE.py

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1. TestLength : Check for the length of each line of TLE. The length of TLE should be 69.
2. TestSymbol: It checks for the position of spaces, signs (+ and -) and decimals
3. TestRange: The range of some of the orbital elements for eg. the inclination in degrees will vary from 0 to 360.
4. ElementLength: This block checks for the length of all the elements of TLE such as epoch, inclination, raan etc.

Some notes

If the test fails then look at the test-message from the start. Most likely first two or three are causing rest of errors. So fix the errors one by one.

First look at the length of TLE – are they matching?

Then look at the spaces and signs + -

Do not copy TLE from n2yo or somewhere. If you do then rewrite the signs(+,-)as they are interpreted differently in python.