Assignment 3 Test Criteria

Grading rubric

- error cases: 10%
- legal tests: 90%

1. Cipher (rotstr)

- Error cases (check: error messages on **stderr**; exit status)
    - first value read is not a number
    - input string has non-alphanumeric character
- Legal cases (check exit status for each test) (below: N = rotation value)
    - N > 0, N < 26
        - zero strings
        - all lower case
        - all upper case
        - numbers
        - mixed upper and lower and numbers
    - N > 26 (let's say N > 1000)
        - zero strings
        - all lower case
        - all upper case
        - numbers
        - mixed upper and lower and numbers
    - N = 0
        - same input strings as above
    - N < 0, N < 26
        - same input strings as above
    - N < 0 (say N < -1000)
        - same input strings as above

2. Palindromes

- error cases: none
- legal inputs: (check exit status for each input): Use all combinations of the following:
    - case of letters:
        - only lower case
        - only upper case
        - mixed upper and lower case
    - presence/absence of numbers

    - presence/absence of non-alphanumeric characters (e.g., @ # & *)

3. Vowels

- error cases (check: error msg on stderr; exit status)
    - input string has non-letter character
- legal inputs (test exit status). Use all combinations of the following:
    - which vowels are present:
        - word with no vowels (e.g., syzygy)
        - word with just a single vowel
        - with multiple occurrences of the same vowel
        - word with multiple different vowels
    - case of vowels:
        - only lower
        - only upper
        - mixed upper and lower

4. Mayan

- error cases (check stderr and exit status):
    - input string has a character that is not a base-20 numeral:
        - a letter other than [a-tA-T]
        - a character that is not a letter
- legal cases: Use all combinations of the following:
    - case:
        - all upper
        - all lower
        - mixed upper and lower
    - number of letters in the input string:
        - only one
        - two letters
        - many letters (say, 5)
    - no. of strings in the input stream:
        - one string
        - several strings (say, 5)
- Restrictions:
    - should not use if-else structure
    - should not use math library