

This homework deals with writing a "censoring" program that works as follows:

- 1) The program repeatedly prompts the user to enter a sentence to be censored.
- 2) After a sentence is entered, the program searches for the word "hell" and replaces with "heck".
- 3) The original and censored sentences are displayed within quotes.
- 4) The program should continue to ask for sentences to censor until user enters null string.

Output should look like following:

```
Enter Sentence ==> Hell, its hot as hell looking for shells in hell!

Original : "Hell, its hot as hell looking for shells in hell!"
Censored : "Heck, its hot as heck looking for shells in heck!"
-----

Enter Sentence ==> Hello Hell.

Original : "Hello Hell."
Censored : "Hello Heck."
-----

Enter Sentence ==>
Goodbye.....
```

### Hints and Suggestions:

- 1) Write program so that output looks like the above. Following deductions will be made:
  - 4 points if program does not censor sentence containing a mixture of upper and lower case letters.
  - 3 points if program displays the censored sentence in all uppercase letters (or lowercase).
  - 3 points if program does not handle punctuation.
  - 2 points if quotes not displayed around outputted original and censored sentence.
  - 2 points if separating lines ( ----- ) not displayed
  - 2 points if you make “, quotes, part of the string.
- 2) Think carefully about the design of the functions that you write for this program. Try to maximize the number of reusable functions, i.e. your computational functions should be logically coherent. Your main() should not contain any messy detail. Remember many points depend on program design and organization.
- 3) The algorithm for this program is non-trivial. Be sure to spend sufficient time constructing the algorithm, and do not rush right in to coding.
- 4) Think carefully about the test data for this program. It would be quite easy to miss logical errors unless data is well chosen.
- 5) Because the purpose of this homework is to get practice working with arrays, **you are not allowed to use functions in string.h**. However you may use any other header files, especially ctype.h.