

## **Introduction to Computer** (EE103B)

### Homework #11

(Due: Dec. 15)

Write a program that uses random number generation to create sentences. The program should use four arrays of pointers to char called **article**, **noun**, **verb** and **preposition**. The program should create a sentence by selecting a word at random from each array in the following order: **article**, **noun**, **verb**, **preposition**, **article** and **noun**. As each word is picked, they should be separated by spaces. When the final sentence is output, it should start with a capital letter and end with a period. The whole sentence should be printed at the same line. The program should generate 20 such sentences.

The arrays should be filled as follows: The article array should contain the articles "the", "a", "one", "some" and "any"; the noun array should contain the nouns "boy", "girl", "dog", "town" and "car"; the verb array should contain the verbs "drove", "jumped", "ran", "walked" and "skipped"; the preposition array should contain the prepositions "to", "from", "over", "under" and "on".

Hint: The function: `char toupper(char c)` in **<ctype.h>** library can translate a character to its uppercase letter.