

CS 288 2018F Section 101

Homework 01

Due: On Friday September 21, 2018 at 11:45pm.

Task: Write a program to play hangman. In hangman, one player thinks of a word and the other tries to guess the word by guessing one letter at a time. The guesser is allowed a fixed number of missed letters, such as six; if the word is not guessed before six misses, the guesser loses.

Hint: To read an input character, use this C snippet:

```
char letter;
printf("enter a letter: ");
scanf(" %c", &letter);
printf("You've entered the letter %c\n", letter);
```

The prototypes for the `printf()` and `scanf()` C Standard Library functions are defined in the `<stdlib.h>` header file.

Deliverables: A file named `hangman.c` containing the C source code.

Input/Output: Use the following sample as a guideline:

Welcome to Hangman!

Try to guess the secret word one letter at a time.

```
# misses left = 6      word = * * * * *
enter a letter: E      word = * * * E * * * E *
# misses left = 6      word = * * * E * * * E *
enter a letter: A      word = * * * E * * * E *
# misses left = 5      word = * * * E * * * E *
enter a letter: I      word = * * * E * * * E *
# misses left = 4      word = * * * E * * * E *
enter a letter: R      word = * * R E * * * E *
# misses left = 4      word = * * R E * * * E *
enter a letter: O      word = * * R E * * * E *
# misses left = 3      word = * * R E * * * E *
enter a letter: N      word = * * R E N * * * E N
# misses left = 3      word = * * R E N * * * E N
enter a letter: T      word = * T R E N * T * E N
# misses left = 3      word = * T R E N * T * E N
enter a letter: L      word = * T R E N * T * E N
# misses left = 2      word = * T R E N * T * E N
enter a letter: U      word = * T R E N * T * E N
# misses left = 1      word = * T R E N * T * E N
enter a letter: P
YOU LOSE! The word is STRENGTHEN
```