// Assignment\_6

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#include <time.h>

#define MAX\_TRIES 6

const char \*words[] = {"python", "hangman", "programming", "challenge", "openai"};

void print\_hangman(int tries) {

printf("\n");

printf(" ------\n");

printf(" | |\n");

if (tries < 6) printf(" | O\n");

if (tries < 5) printf(" | /|\\\n");

if (tries < 4) printf(" | / \\\n");

printf(" |\n");

}

int main() {

srand(time(NULL));

const char \*word = words[rand() % (sizeof(words) / sizeof(words[0]))];

int word\_length = strlen(word);

char guessed[word\_length + 1];

int tries = MAX\_TRIES;

int correct\_guesses = 0;

for (int i = 0; i < word\_length; i++) {

guessed[i] = '\_';

}

guessed[word\_length] = '\0';

printf("Welcome to Hangman!\n");

while (tries > 0 && correct\_guesses < word\_length) {

printf("%s\n", guessed);

print\_hangman(tries);

printf("Enter a letter: ");

char input;

scanf(" %c", &input);

int found = 0;

for (int i = 0; i < word\_length; i++) {

if (word[i] == input && guessed[i] == '\_') {

guessed[i] = input;

found = 1;

correct\_guesses++;

}

}

if (!found) {

tries--;

printf("Incorrect! You have %d tries left.\n", tries);

} else {

printf("Good guess!\n");

}

}

if (correct\_guesses == word\_length) {

printf("Congratulations! You've guessed the word: %s\n", word);

} else {

printf("Sorry, you've run out of tries. The word was: %s\n", word);

}

return 0;

}