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ASSIGNMENT-5
Hangman Game
#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");</pre>
 if (tries < 5) printf(" | /|\\\n");</pre>
 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];
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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++;
   }
  }
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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;
}
```