#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#define MAX\_QUESTIONS 5

struct Question {

char question[256];

char options[4][100];

char answer;

};

void loadQuestions(struct Question quiz[]) {

strcpy(quiz[0].question, "What is the capital of France?");

strcpy(quiz[0].options[0], "A. Berlin");

strcpy(quiz[0].options[1], "B. Paris");

strcpy(quiz[0].options[2], "C. Madrid");

strcpy(quiz[0].options[3], "D. Rome");

quiz[0].answer = 'B';

strcpy(quiz[1].question, "Which planet is known as the Red Planet?");

strcpy(quiz[1].options[0], "A. Earth");

strcpy(quiz[1].options[1], "B. Venus");

strcpy(quiz[1].options[2], "C. Mars");

strcpy(quiz[1].options[3], "D. Jupiter");

quiz[1].answer = 'C';

strcpy(quiz[2].question, "Who wrote 'Romeo and Juliet'?");

strcpy(quiz[2].options[0], "A. William Wordsworth");

strcpy(quiz[2].options[1], "B. William Shakespeare");

strcpy(quiz[2].options[2], "C. Charles Dickens");

strcpy(quiz[2].options[3], "D. Jane Austen");

quiz[2].answer = 'B';

strcpy(quiz[3].question, "Which gas do plants absorb?");

strcpy(quiz[3].options[0], "A. Oxygen");

strcpy(quiz[3].options[1], "B. Nitrogen");

strcpy(quiz[3].options[2], "C. Carbon Dioxide");

strcpy(quiz[3].options[3], "D. Hydrogen");

quiz[3].answer = 'C';

strcpy(quiz[4].question, "Which is the largest ocean?");

strcpy(quiz[4].options[0], "A. Indian Ocean");

strcpy(quiz[4].options[1], "B. Atlantic Ocean");

strcpy(quiz[4].options[2], "C. Southern Ocean");

strcpy(quiz[4].options[3], "D. Pacific Ocean");

quiz[4].answer = 'D';

}

void startQuiz(struct Question quiz[]) {

int score = 0;

char userAns;

for (int i = 0; i < MAX\_QUESTIONS; i++) {

printf("\nQ%d: %s\n", i + 1, quiz[i].question);

for (int j = 0; j < 4; j++) {

printf("%s\n", quiz[i].options[j]);

}

printf("Your answer (A/B/C/D): ");

scanf(" %c", &userAns);

if (toupper(userAns) == quiz[i].answer) {

printf("Correct!\n");

score++;

} else {

printf("Wrong! Correct answer: %c\n", quiz[i].answer);

}

}

printf("\nYour total score: %d out of %d\n", score, MAX\_QUESTIONS);

}

int main() {

struct Question quiz[MAX\_QUESTIONS];

char name[50];

char playAgain;

loadQuestions(quiz);

printf("Welcome to the C Quiz Game!\n");

printf("Enter your name: ");

fgets(name, sizeof(name), stdin);

name[strcspn(name, "\n")] = '\0'; // remove newline

do {

printf("\nHello, %s! Let's start the quiz.\n", name);

startQuiz(quiz);

printf("\nDo you want to play again? (Y/N): ");

scanf(" %c", &playAgain);

} while (toupper(playAgain) == 'Y');

printf("Thanks for playing, %s!\n", name);

return 0;

}