18 Prime are not

#include <stdio.h>

// Function to check if a number is prime (not used in this version)

bool is\_prime(int num) {

// Implement primality check logic here (e.g., using divisibility rules or trial division)

}

// Recursive function to generate prime numbers (not recommended for efficiency)

void generate\_primes\_recursive(int num, int start) {

if (is\_prime(num)) {

printf("%d ", num);

}

if (num > 2) {

generate\_primes\_recursive(num - 1, start);

generate\_primes\_recursive(num - 2, start);

} else if (num == 2) {

printf("%d ", num);

}

}

int main() {

int limit;

printf("Enter the upper limit: ");

scanf("%d", &limit);

printf("Prime numbers up to %d:\n", limit);

generate\_primes\_recursive(limit, 2); // Start with 2 as the first prime

return 0;

} 