#include <stdio.h>

#include <stdbool.h>

bool isPrime(int num) {

if (num <= 1) {

return false;

}

if (num == 2) {

return true; //

}

if (num % 2 == 0) {

return false; //

}

for (int i = 3; i \* i <= num; i += 2) {

if (num % i == 0) {

return false;

}

}

return true;

}

int main() {

int num;

printf("Enter an integer: ");

scanf("%d", &num);

if (isPrime(num)) {

printf("%d is a prime number.\n", num);

} else {

printf("%d is not a prime number.\n", num);

}

return 0;

}