#include <stdio.h>

int main() {

int n, i, flag = 0;

printf("Enter a positive integer: ");

scanf("%d", &n);

// 0 and 1 are not prime numbers

// change flag to 1 for non-prime number

if (n == 0 || n == 1)

flag = 1;

for (i = 2; i <= n / 2; ++i) {

// if n is divisible by i, then n is not prime

// change flag to 1 for non-prime number

if (n % i == 0) {

flag = 1;

break;

}

}

// flag is 0 for prime numbers

if (flag == 0)

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

else

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

return 0;

}