9. Write a program to check a number is a prime number or not using recursion.

```
Program:
def is_prime(n, divisor=2):
  if n <= 1:
    return False
  if n == 2:
    return True
  if n \% divisor == 0:
    return False
  if divisor * divisor > n:
    return True
  return is_prime(n, divisor + 1)
num = 17
if is_prime(num):
  print(num, "is a prime number.")
else:
  print(num, "is not aprimenumber.")
Output:
Time complexity:
O(\sqrt{n})
```