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import time
import sys
sys.setrecursionlimit(10**5)
# Python program to display the Fibonacci sequence
def recur_fibo(n):
  if n <= 1:
    return n
  else:
    return(recur_fibo(n-1) + recur_fibo(n-2))
def measure_time_recursive(num, cycles):
  start = time.time()
  for i in range(cycles):
    recur_fibo(num)
  return time.time() - start
def iterFibonacci(n):
  a,b = 0,1
  for i in range(n):
    a,b = b,a+b
  return a
def measure_time_iterative(num, cycles):
  start = time.time()
  for i in range(cycles):
    iterFibonacci(num)
  return time.time() - start
def main():
  print("The program's execution time for iterative fibonacci (20) is: ",
measure_time_iterative(7, 20))
  print("The program's execution time for recursive fibonacci (20) is: ",
measure_time_recursive(7, 20))
  print("The program's execution time for iterative fibonacci (100000) is: ",
measure_time_iterative(7, 100000))
  print("The program's execution time for recursive fibonacci (100000) is: ",
measure_time_recursive(7, 100000))
```

```
if __name__ == "__main__":
    main()
```