```
In [2]: import ctypes
        # Load the shared library
        libPMU = ctypes.CDLL('./libMyLib.so')
        # Initialize the PMU counters (arguments: do_reset, enable_divider)
        libPMU.init_pmu_counters(ctypes.c_int(1), ctypes.c_int(0))
        # Get the cycle count
        cycle_count = libPMU.get_cycle_count()
        print("Cycle count:", cycle_count)
        Cycle count: 1143062
In [ ]:
```

```
1 import ctypes
 2 import time
 3 import numpy as np
 4 import random
 5
 6 # Load the shared library
 7 libPMU = ctypes.CDLL('./libPMU.so')
 8
9 # Initialize PMU counters
10 def init_pmu_counters():
       libPMU.init_pmu_counters(1, 0)
11
12
13 # Get cycle count
14 def get_cycle_count():
15
       return libPMU.get_cycle_count()
16
17 # Recursive Fibonacci function
18 def recur fibo(n):
       return n if n <= 1 else recur_fibo(n-1) + recur_fibo(n-2)</pre>
19
20
21 # Run timing test
22 def run_fibo_timing_test(terms):
23
       results = {'cycles': [], 'times': [], 'cycle_errors': [], 'time_errors': []}
24
25
       for n in terms:
26
           cycles, times = [], []
27
            for _ in range(3): # Three trials
28
                init_pmu_counters()
29
                # Get 'before' time and cycle count
30
                start_time = time.time()
31
32
                start_cycle = get_cycle_count()
33
               # Run the recur_fibo function
34
35
               recur_fibo(n)
36
37
               # Get 'after' cycle count and time
38
               end_cycle = get_cycle_count()
39
               end_time = time.time()
40
               # Calculate the differences
11
```