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"""
CS241 Homework 7
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"""

def fib(n):
   # Base Cases
   if n <= 0:
      return 0
   elif n == 1:
      return 1
   elif n == 2:
      return 1

   # By definition: fib(n) = fib(n-1) + fib(n-2)
   return fib(n-1) + fib(n-2)

# Print out the first 20 fib numbers
for i in range(20):
   print("fib({}) = {}" .format(i, fib(i)))

# By the way, this is not wise for larger values of 20.  The
# 100th Fib number is 354,224,848,179,261,915,075.  This can not be done
# with recurrsion.  You can solve this problem a lot easier with a loop.

# With that said, this is a really easy one to see how recursion works.


```