42-PROGR-recursiones

October 12, 2017

```
Fibonacci:
In [1]: def fibon(n):
            p,q = 0,1
            for int in xsrange(n):
                p,q = q,p+q
            return q
In [2]: def fibon2(n):
                   if n == 0:
                       return 0
                   elif n == 1:
                       return 1
                   else:
                       return fibon2(n-1)+fibon2(n-2)
In [3]: time fibon(1000)
CPU times: user 0 ns, sys: 0 ns, total: 0 ns
Wall time: 393 ţs
Out [3]: 70330367711422815821835254877183549770181269836358732742604905087154537118196933579742
In [4]: fibon2(1000)
        RuntimeError
                                                  Traceback (most recent call last)
        <ipython-input-4-6ec515aad559> in <module>()
    ---> 1 fibon2(Integer(1000))
        <ipython-input-2-23561b5bb1a5> in fibon2(n)
                           return Integer(1)
          6
                       else:
    ---> 7
                           return fibon2(n-Integer(1))+fibon2(n-Integer(2))
```

```
... last 1 frames repeated, from the frame below ...
        <ipython-input-2-23561b5bb1a5> in fibon2(n)
                          return Integer(1)
                      else:
    ---> 7
                          return fibon2(n-Integer(1))+fibon2(n-Integer(2))
        RuntimeError: maximum recursion depth exceeded while calling a Python object
In [5]: sys.setrecursionlimit(1000)
        fibon2(994)
                                                  Traceback (most recent call last)
       RuntimeError
        <ipython-input-5-59c828d2cfb3> in <module>()
          1 sys.setrecursionlimit(Integer(1000))
    ---> 2 fibon2(Integer(994))
        <ipython-input-2-23561b5bb1a5> in fibon2(n)
                           return Integer(1)
    ---> 7
                          return fibon2(n-Integer(1))+fibon2(n-Integer(2))
        ... last 1 frames repeated, from the frame below ...
        <ipython-input-2-23561b5bb1a5> in fibon2(n)
                          return Integer(1)
          6
                      else:
    ---> 7
                          return fibon2(n-Integer(1))+fibon2(n-Integer(2))
        RuntimeError: maximum recursion depth exceeded while calling a Python object
In [7]: sys.setrecursionlimit(1500)
        %time fibon2(1000)
```

```
Traceback (most recent call last)
   KeyboardInterrupt
   <ipython-input-7-6a2aea302e56> in <module>()
     1 sys.setrecursionlimit(Integer(1500))
---> 2 get_ipython().magic(u'time fibon2(1000)')
   /usr/local/SageMath/local/lib/python2.7/site-packages/IPython/core/interactiveshell.py
               magic_name, _, magic_arg_s = arg_s.partition(' ')
  2156
               magic_name = magic_name.lstrip(prefilter.ESC_MAGIC)
  2157
-> 2158
               return self.run_line_magic(magic_name, magic_arg_s)
  2159
           #-----
  2160
   /usr/local/SageMath/local/lib/python2.7/site-packages/IPython/core/interactiveshell.py
                      kwargs['local_ns'] = sys._getframe(stack_depth).f_locals
  2077
  2078
                  with self.builtin_trap:
-> 2079
                      result = fn(*args,**kwargs)
  2080
                  return result
  2081
   <decorator-gen-59> in time(self, line, cell, local_ns)
   /usr/local/SageMath/local/lib/python2.7/site-packages/IPython/core/magic.pyc in <lambd
           # but it's overkill for just that one bit of state.
   186
   187
           def magic_deco(arg):
               call = lambda f, *a, **k: f(*a, **k)
--> 188
   189
   190
               if callable(arg):
   /usr/local/SageMath/local/lib/python2.7/site-packages/IPython/core/magics/execution.py
            if mode=='eval':
  1174
  1175
                  st = clock2()
-> 1176
                  out = eval(code, glob, local_ns)
                  end = clock2()
  1177
  1178
              else:
   <timed eval> in <module>()
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                     return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                   else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                   else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                   else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                   else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                   else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                   else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                   else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                   else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
```

```
else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                 else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                 else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                 else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                 else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
   <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
----> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                      return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
                  else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                       return Integer(1)
     6
                  else:
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
---> 7
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
     5
                      return Integer(1)
```

```
else:
      6
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
      6
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
      6
                   else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
      6
                   else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                       return Integer(1)
      6
                   else:
---> 7
                       return fibon2(n-Integer(1))+fibon2(n-Integer(2))
    <ipython-input-2-23561b5bb1a5> in fibon2(n)
                   if n == Integer(0):
      3
                       return Integer(0)
---> 4
                   elif n == Integer(1):
      5
                       return Integer(1)
      6
                   else:
    src/cysignals/signals.pyx in cysignals.signals.python_check_interrupt (build/src/cysignals.python_check_interrupt)
    src/cysignals/signals.pyx in cysignals.signals.sig_raise_exception (build/src/cysignals
    KeyboardInterrupt:
```

Parado después de unas tres horas y media de cálculo. Es claro que no merece la pena, en muchas recursiones, aumentar el límite (mil niveles de profundidad del árbol de recursión) que tiene Sage.

Fibonacci recursivo a iterativo

```
In [8]: def fibon3(n):
            L = [1,1]
            while len(L) <= n+1:
                L.append(L[-2]+L[-1])
            return L
In [9]: fibon3(10)
Out[9]: [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144]
In [10]: time RES = fibon3(10^5)
CPU times: user 168 ms, sys: 228 ms, total: 396 ms
Wall time: 345 ms
   £Por qué y cómo se puede transformar todo programa recursivo en iterativo?
   Suma de los cubos:
In [11]: def suma(n):
             suma = 0
             j = 1
             while j < n+1:
                 suma += j^3
                 j += 1
             return suma
In [12]: suma(100)
Out[12]: 25502500
In [13]: def suma2(n):
             if n == 1:
                 return 1
             else:
                 return suma2(n-1)+n^3
In [14]: suma2(100)
Out[14]: 25502500
In [15]: time suma(10^4)
CPU times: user 8 ms, sys: 4 ms, total: 12 ms
Wall time: 7.33 ms
Out[15]: 2500500025000000
```

```
In [18]: sys.setrecursionlimit(10^4+100)
         %time suma2(10<sup>4</sup>)
CPU times: user 12 ms, sys: 4 ms, total: 16 ms
Wall time: 12.9 ms
Out[18]: 2500500025000000
   Factorial:
In [19]: def fact(n):
             prod = 1
             for i in xsrange(2,n+1):
                 prod *= i
             return prod
In [20]: fact(5)
Out[20]: 120
In [21]: def fact2(n):
               if n == 0:
                    return 1
               else:
                    return factorial(n-1)*n
In [22]: fact2(5)
Out[22]: 120
In [23]: time N = fact(10^4)
CPU times: user 16 ms, sys: 4 ms, total: 20 ms
Wall time: 19.6 ms
In [25]: sys.setrecursionlimit(10^4+100)
         %time NN = fact2(10^4)
CPU times: user 0 ns, sys: 0 ns, total: 0 ns
Wall time: 665 ţs
   £No son un poco extraños estos tiempos? £A qué se pueden deber?
   Máximo Común Divisor:
In [26]: def mcd(n,m):
             while m > 0:
                 n,m = m,n\%m
             return n
```

Recursión e inducción

Una solución al primer ejercicio propuesto dentro del ejercicio 9 de la lista al final del capítulo 4 de las notas.

```
In [30]: def comprueba(N):
           var('n')
           L = \prod
           S = 1
           F(n) = n*(n+1)*(2*n+1)/6
           if N == 1:
              if F(n=1) == 1:
                  L.append(1)
                  return S,L
              else:
                  L.append(0)
                  return S,L
           else:
              S,L= comprueba(N-1)
              S += N^2
              if S == F(n=N):
                  L.append(1)
              else:
                  L.append(0)
              return S,L
In [31]: comprueba(7)
Out[31]: (140, [1, 1, 1, 1, 1, 1, 1])
In [32]: comprueba(17)
```