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""" Contains a class that supports the
manipulatio of points
in the plane.
from math import sqrt, sin, cos, pi
from random import
uniform as randu
class Point:
   Attributes:
       x: float, the
x-coordinate of a point
      y: float, the y-coordinate of a point
 def __init__(self,x,y):
       """ Creates a point.
        PreC: x and y are
floats
        self.x = x
        self.y = y
   def
__str__(self):
        """ Pretty prints a point object.
apply this function to a point P, write
             print P
return '(%6.3f,%6.3f)' %(self.x,self.y)
   def Dist(self,other):
""" Returns a float that is the distance from self to other.
        PreC:
self and other are points
        d =
sqrt((self.x-other.x)**2+(self.y-other.y)**2)
       return d
   def Rotate(self,theta):
     """ Returns a point that is obtained by rotating self about the
origin theta degrees in the counterclockwise direction.
        PreC: self is a point
and theta is a number.
        x = self.x
        y = self.y
c = cos(pi*(theta/180.0))
        s = sin(pi*(theta/180.0))
        return
Point(x*c-y*s,x*s+y*c)
   def Reflect(self):
        """ Returns a point that
is obtained by reflecting self about the
        the 45-degree line y = x
```

ThePointClass.py