You are given two types, Circle and Square, and a decorator called ColoredShape.

The decorator adds the color to the string output for a given shape, just as we did in the lecture.

There's a trick though: the decorator now has a resize() method that should resize the underlying shape. However, only the Circle has a resize() method; the Square does not — do not add it!

You are asked to complete the implementation of Circle, Square and ColoredShape.

Here is a sample unit test that should pass:

class Evaluate(TestCase):

def test\_circle(self):

circle = ColoredShape(Circle(5), 'red')

self.assertEqual(

'A circle of radius 5 has the color red',

str(circle)

)

circle.resize(2)

self.assertEqual(

'A circle of radius 10 has the color red',

str(circle)

)