# test_madera.py

```
1   import unittest
2
3   import madera
4
5
6   class TestCelulosas(unittest.TestCase):
7       def test_celulosas_aserrin(self):
8           self.assertEqual(madera.celulosas("aserrin", 2.4, 6.3, 2.8),
9                            (42.336, 7620.48))
10
11      def test_celulosas_astilla(self):
12          self.assertEqual(madera.celulosas("astilla", 2.4, 6.3, 2.8),
13                           (42.336, 10160.64))
14
15      def test_celulosas_invalido(self):
16          self.assertEqual(madera.celulosas("bombones", 0, 0, 0),
17                           "Producto incorrecto")
18
19
20  class TestTroncos(unittest.TestCase):
21      def test_troncos_no_pieces(self):
22          self.assertEqual(madera.troncos(50, 2.44), 0.479)
23
24      def test_troncos_two_pieces(self):
25          self.assertEqual(madera.troncos(50, 2.44, 2), 0.958)
26
27
28  class TestAserrio(unittest.TestCase):
29      def test_aserrio_1a(self):
30          self.assertEqual(madera.aserrio(4, 0.75, 8, 1),
31                           "4 x 0.75 x 8 1a, $30.0")
32
33      def test_aserrio_2a(self):
34          self.assertEqual(madera.aserrio(4, 0.75, 8, 2),
35                           "4 x 0.75 x 8 2a, $24.0")
36
37      def test_aserrio_3a(self):
38          self.assertEqual(madera.aserrio(4, 0.75, 8, 3),
39                           "4 x 0.75 x 8 3a, $20.0")
40
41
42  class TestRaja(unittest.TestCase):
43      def test_raja_1_alto(self):
44          self.assertEqual(madera.raja(2.4, 6.3, [2.3]),
45                           (34.776, 7233.41))
46
47      def test_raja_3_altos(self):
48          self.assertEqual(madera.raja(2.4, 6.3, [2.3, 2.6, 2]),
49                           (34.776, 7233.41))
50
```