Дано приложение, определяющее «тип» треугольника (равносторонний, равнобедренный, прямоугольный, «обычный») и предоставляющее возможность вычислить площадь треугольника. См. код в папке «**Triangle**».

Check list:

1. Check the possibility of building a triangle
   1. The sides > 0 (a > 0; b > 0; c > 0)
   2. The sides = 0 (a = 0; b = 0; c = 0)
   3. The sides < 0 (a < 0; b < 0; c < 0)
   4. The sides are Nan (a = Nan; b = Nan; c = Nan)
   5. The sides are POSITIVE\_INFINITY (a = POSITIVE\_INFINITY; b = POSITIVE\_INFINITY; c = POSITIVE\_INFINITY)
   6. The sum any of two sides is greater than the third (a + b > c; b + c > a; a + c > b)
   7. The sum any of two sides is greater than the third (a + b = c; b + c = a; a + c = b)
   8. The sum any of two sides is greater than the third (a + b < c; b + c < a; a + c < b)
2. Check the type of triangle
   1. Correct equilateral and isosceles triangle (a=b=c)

2.2 Correct isosceles triangle (a = b || b = c || a = c)

2.3 Correct right triangle (a2+ b2= c2 || b2+ c2= a2 || c2+ a2= b2)

* 1. Correct right and isosceles triangle

((a2+ b2= c2 || b2+ c2= a2 || c2+ a2= b2) && (a = b || b = c || a = c))

* 1. Correct “simple” triangle (any other cases)

1. Check the square of triangle

3.1 The calculated area of the triangle has the correct value