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BSCS - 1A
Computer Programming 1
Practice Exercise 2

Shape	Pseudocode	Flowchart
Rectangle	<pre>input L, W if ((L > 0) and (W > 0)) then { A = L * W P = (2 * L) + (2 * W) output("Area", A) output("Perimeter", P) } else then { output("Invalid input. Please try again.") }</pre>	input L, W if ((L > 0) and (W > 0)) No output("Invalid input. Please try again.") end P = (2 * L) + (2 * W) output("Area", A) output("Perimeter", P) end

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Triangle
             input a, b, c
                                                                                                     start
            if ((a > 0) \text{ and } (b > 0) \text{ and } (c > 0)) then {
                 s = (a + b + c) / 2
                A = sqrt(s*(s-a)*(s-b)*(s-c))
                                                                                                  input a, b, c
                 P = a + b + c
                 output("Area", A)
                 output("Perimeter", P)
                                                                                                                                         No
            } else then {
                                                                                     if ((a > 0) \text{ and } (b > 0) \text{ and } (c > 0))
                 output("Invalid input. Please try again.")
                                                                                                         Yes
                                                                                                                                    output("Invalid input.
                                                                                             s = (a + b + c) / 2.0
                                                                                                                                    Please try again.")
                                                                                         A = sqrt(s*(s-a)*(s-b)*(s-c))
                                                                                                  P = a + b + c
                                                                                               output("Area", A)
                                                                                             output("Perimeter", P)
```

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Circle
           input r
           set const PI = 3.14159265
                                                                                start
           if (r > 0) then {
               A = PI * (r * r)
                                                                               input r
               P = 2 * PI * r
               output("Area", A)
               output("Perimeter", P)
                                                                       set const PI = 3.14159265
           } else then {
               output("Invalid input. Please try again.")
                                                                                                     No
                                                                              if (r > 0)
                                                                                   Yes
                                                                                                     output("Invalid input.
                                                                           A = PI * (r * r)
                                                                                                     Please try again.")
                                                                            P = 2 * PI * r
                                                                          output("Area", A)
                                                                        output("Perimeter", P)
```