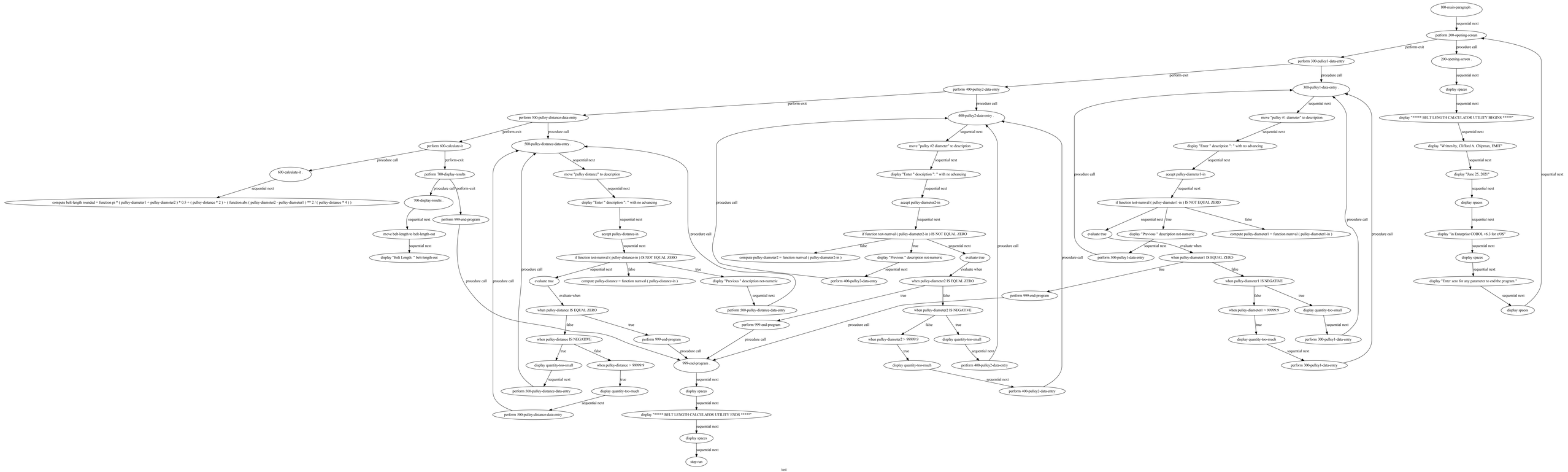
100-main-paragraph .
sequential next
perform 200-opening-screen
perform-exit
procedure call
200-opening-screen
sequential next
display spaces
sequential next
display "***** BELT LENGTH CALCULATOR UTILITY BEGINS *****"
sequential next
display "Written by, Clifford A. Chipman, EMIT"
sequential next
display "June 25, 2021"
sequential next
display spaces
sequential next
display "in Enterprise COBOL v6.3 for z/OS"
sequential next
display spaces
sequential next
display "Enter zero for any parameter to end the program. "
sequential next
display spaces
sequential next
perform 300-pulley1-data-entry
procedure call
300-pulley1-data-entry .
sequential next
move "pulley #1 diameter" to description
sequential next
display "Enter " description ": " with no advancing
sequential next
accept pulley-diameter1-in
sequential next
if function test-numval (pulley-diameter1-in) IS NOT EQUAL ZERO
sequential next
true
false
evaluate true
display "Previous " description not-numeric
compute pulley-diameter1 = function numval (pulley-diameter1-in)
sequential next
evaluate when
perform 300-pulley1-data-entry
when pulley-diameter1 IS EQUAL ZERO
true
false
when pulley-diameter1 IS NEGATIVE
false
true
when pulley-diameter1 > 99999.9
display quantity-too-small
true
sequential next
display quantity-too-much
perform 300-pulley1-data-entry
sequential next
perform 300-pulley1-data-entry
perform 999-end-program
procedure call
procedure call
procedure call
perform-exit
perform 400-pulley2-data-entry
procedure call
400-pulley2-data-entry .
sequential next
move "pulley #2 diameter" to description
sequential next
display "Enter " description ": " with no advancing
sequential next
accept pulley-diameter2-in
sequential next
if function test-numval (pulley-diameter2-in) IS NOT EQUAL ZERO
sequential next
true
false
evaluate true
display "Previous " description not-numeric
compute pulley-diameter2 = function numval (pulley-diameter2-in)
sequential next
evaluate when
perform 400-pulley2-data-entry
when pulley-diameter2 IS EQUAL ZERO
true
false
when pulley-diameter2 IS NEGATIVE
false
true
when pulley-diameter2 > 99999.9
display quantity-too-small
true
sequential next
display quantity-too-much
perform 400-pulley2-data-entry
sequential next
perform 400-pulley2-data-entry
perform 999-end-program
procedure call
procedure call
procedure call
perform-exit
perform 500-pulley-distance-data-entry
procedure call
500-pulley-distance-data-entry .
sequential next
move "pulley distance" to description
sequential next
display "Enter " description ": " with no advancing
sequential next
accept pulley-distance-in
sequential next
if function test-numval (pulley-distance-in) IS NOT EQUAL ZERO
sequential next
true
false
evaluate true
display "Previous " description not-numeric
compute pulley-distance = function numval (pulley-distance-in)
sequential next
evaluate when
perform 500-pulley-distance-data-entry
when pulley-distance IS EQUAL ZERO
true
false
when pulley-distance IS NEGATIVE
false
true
when pulley-distance > 99999.9
display quantity-too-small
true
sequential next
display quantity-too-much
perform 500-pulley-distance-data-entry
sequential next
perform 500-pulley-distance-data-entry
perform 999-end-program
procedure call
procedure call
procedure call
perform-exit
perform 600-calculate-it
procedure call
600-calculate-it .
sequential next
compute belt-length rounded = function pi * (pulley-diameter1 + pulley-diameter2) * 0.5 + (pulley-distance * 2) + (function abs (pulley-diameter2 - pulley-diameter1) ** 2 / (pulley-distance * 4))
perform-exit
perform 700-display-results .
procedure call
perform-exit
700-display-results .
sequential next
move belt-length to belt-length-out
sequential next
display "Belt Length: " belt-length-out
perform 999-end-program
procedure call
999-end-program .
sequential next
display spaces
sequential next
display "***** BELT LENGTH CALCULATOR UTILITY ENDS *****"
sequential next
display spaces
sequential next
stop run

test