evaluate TRUE
evaluate when
when outside-temp IS GREATER THAN OR EQUAL TO 80 AND outside-temp IS LESS THAN OR EQUAL TO 112 AND relative-humidity IS LESS THAN 13
true
compute heat-index rounded = negative-one * c51 + c52 * outside-temp + c53 * relative-humidity - c54 * outside-temp * relative-humidity - c55 * outside-temp ** 2 - c56 * relative-humidity ** 2 + c57 * outside-temp ** 2 * relative-humidity + c58 * outside-temp * relative-humidity ** 2 - c59 * outside-temp ** 2 * relative-humidity ** 2
compute adjustment rounded = (13 - relative-humidity) / 4 * function sqrt (17 - function abs (outside-temp - 95)) / 17
subtract adjustment from heat-index
evaluate when
when relative-humidity IS GREATER THAN 85 AND outside-temp IS GREATER THAN OR EQUAL TO 80 AND outside-temp IS LESS THAN OR EQUAL TO 87
true
compute heat-index rounded = negative-one * c51 + c52 * outside-temp + c53 * relative-humidity - c54 * outside-temp * relative-humidity - c55 * outside-temp ** 2 - c56 * relative-humidity ** 2 + c57 * outside-temp ** 2 * relative-humidity + c58 * outside-temp * relative-humidity ** 2 - c59 * outside-temp ** 2 * relative-humidity ** 2
compute adjustment rounded = (relative-humidity - 85) / 10 * (87 - outside-temp) / 5
add adjustment to heat-index
evaluate when
when heat-index IS GREATER THAN 80
true
compute heat-index rounded = negative-one * c51 + c52 * outside-temp + c53 * relative-humidity - c54 * outside-temp * relative-humidity - c55 * outside-temp ** 2 - c56 * relative-humidity ** 2 + c57 * outside-temp ** 2 * relative-humidity + c58 * outside-temp * relative-humidity ** 2 - c59 * outside-temp ** 2 * relative-humidity ** 2