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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| /\* Strategy:  \* 1. Calculate the value of x for p=0.35 and dof = n-2  \* 2. Calculate Sigma value  \* 3. Calculate the the sqrt value of the formula  \* 4. Return the multiplication of all the above  \*/  Double range (xLIst, yLIst, beta0, beta1, xk)  //step1  Var valueOfX = SearchX(0.35, n-2)  //step 2  Var sigma = geSigma(xLIst, yLIst, beta0, beta1);  //step 3  Var value = sqrt( 1 + (1/n) + ( ( xk-xAvg )2 / ( summatory(xLIst, xAvg) )2 ) );  //step4  Return valueOfX \* sigma \* value; | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Step | input | valueOfX | sigma | value | output | | 1 | P = 0,35  Dof = 1 | 1.9609375 | - | - | - | | 2 | xLIst = [1,2,3]  yLIst = [3,2,1]  beta0=0.5  beta1=1.0 | - | 2 | - | - | | 3 | xLIst = [1,2,3]  Xk = 5  xAvg = 2  N = 3 | - | - | 1.18 | - | | 4 | valueOFX  Sigma  value | - | - | - | 4.6256 |   xLIst = [1,2,3]  yLIst = [3,2,1]  beta0=0.5  beta1=1.0  Xk = 5 |