

Input: array X, array Y

Output: array Coef

begin vandermonde

 int n ← X.size()

 matrix A ← zeros_matrix(n, n)

 for (int i from 0 until n)

 for (int j from 0 until n)

 A[j][i] ← X[j]^(n - (i + 1))

 end for

 end for

 array coef ← solution(A, Y.transposed)

 // solution is a function that solve systems of equations

 return coef

end vandermonde