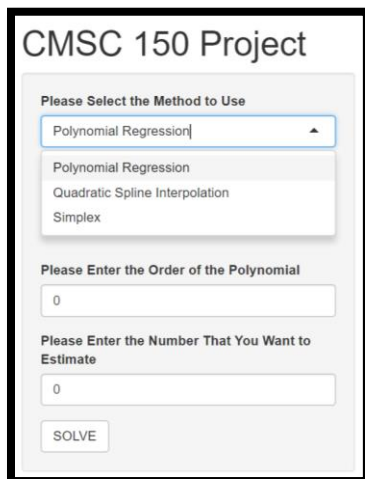


CMSC 150 Project Manual

Denise Reign M. Mutia



CMSC 150 Project

Please Select the Method to Use

Polynomial Regression

Polynomial Regression
Quadratic Spline Interpolation
Simplex

Please Enter the Order of the Polynomial

0

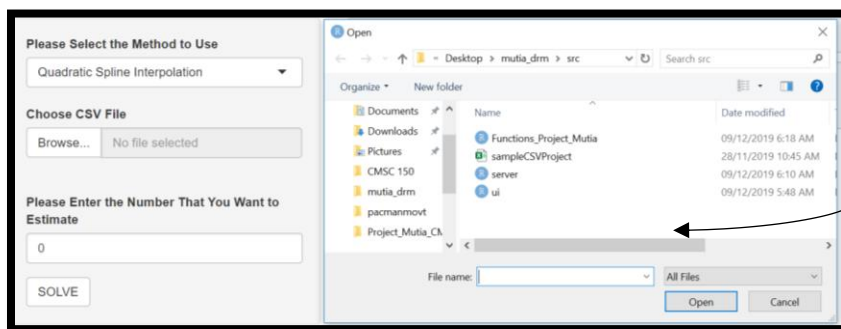
Please Enter the Number That You Want to Estimate

0

SOLVE

1. Click on the dropdown menu in the side panel to choose between the three program functions:

Polynomial Regression
Quadratic Spline Interpolation
Simplex Method



Please Select the Method to Use

Quadratic Spline Interpolation

Choose CSV File

Browse... No file selected

Please Enter the Number That You Want to Estimate

0

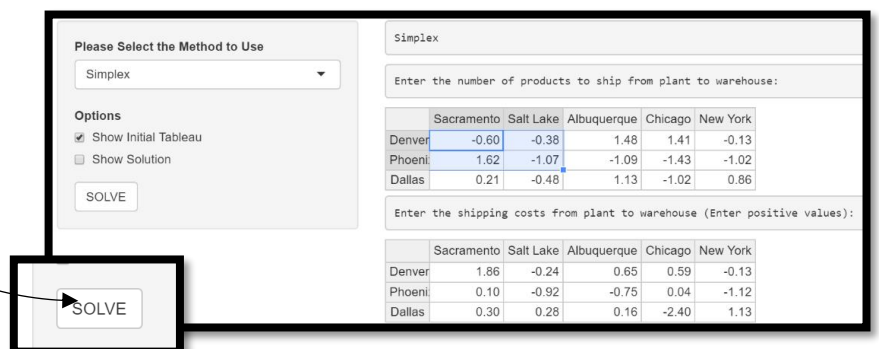
SOLVE

2. For Polynomial Regression and Quadratic Spline Interpolation, you can click on 'Browse' and a pop-up window will appear, allowing you to select a CSV file from your computer

Text fields for the order of the polynomial and the number you want to estimate are also available

3. The tables for the simplex method are editable, just click on the cells and type the values for your constraints.

After typing the data needed for the program functions, click the 'SOLVE' button in the side panel. The answers will then be shown at the right side of the screen



Please Select the Method to Use

Simplex

Options

☒ Show Initial Tableau
☐ Show Solution

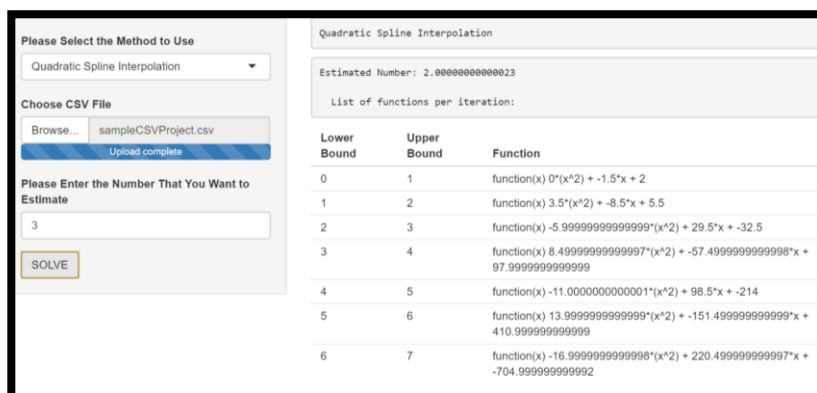
SOLVE

Enter the number of products to ship from plant to warehouse:

	Sacramento	Salt Lake	Albuquerque	Chicago	New York
Denver	-0.60	-0.38	1.48	1.41	-0.13
Phoenix	1.62	-1.07	-1.09	-1.43	-1.02
Dallas	0.21	-0.48	1.13	-1.02	0.86

Enter the shipping costs from plant to warehouse (Enter positive values):

	Sacramento	Salt Lake	Albuquerque	Chicago	New York
Denver	1.86	-0.24	0.65	0.59	-0.13
Phoenix	0.10	-0.92	-0.75	0.04	-1.12
Dallas	0.30	0.28	0.16	-2.40	1.13



Please Select the Method to Use

Quadratic Spline Interpolation

Choose CSV File

Browse... sampleCSVProject.csv
Upload complete

Please Enter the Number That You Want to Estimate

3

SOLVE

Estimated Number: 2.00000000000023

List of functions per iteration:

Lower Bound	Upper Bound	Function
0	1	function(x) 0*(x^2) + -1.5*x + 2
1	2	function(x) 3.5*(x^2) + -8.5*x + 5.5
2	3	function(x) -5.999999999999999*(x^2) + 29.5*x + -32.5
3	4	function(x) 8.499999999999999*(x^2) + -57.49999999999999*x + 97.99999999999999
4	5	function(x) -11.000000000000001*(x^2) + 98.5*x + -214
5	6	function(x) 13.999999999999999*(x^2) + -151.49999999999999*x + 410.99999999999999
6	7	function(x) -16.999999999999998*(x^2) + 220.49999999999997*x + -704.9999999999992