

(Maximum mark: 17)



The *Elite Traveller* and *Condé Nast Traveller* are two magazines that review and rank the best restaurants in Paris. Based on different sets of criteria, scores out of 10 are assigned to 8 restaurants in Paris (labelled A to H). The raw data is collated in the following table.

Restaurants	A	B	C	D	E	F	G	H
<i>Elite Traveller</i> 's score (x)	8.1	6.7	6.9	7.5	9.7	8.8	5.6	7.2
<i>Condé Nast Traveller</i> 's score (y)	8.8	6.9	6.9	7.2	9.2	6.2	6.4	7.7
<i>Elite Traveller</i> 's rank								
<i>Condé Nast Traveller</i> 's rank								

(a) (i) Find the Pearson's product-moment correlation coefficient, r , for this data.

(ii) Using the value of r , interpret the relationship between the *Elite Traveller*'s score and the *Condé Nast Traveller*' score. [4]

(b) Find the equation of the line of regression, y on x . [2]

(c) (i) Use your regression equation from part (b) to estimate the *Condé Nast Traveller*'s score when the *Elite Traveller* awarded a perfect 10.

(ii) State whether this estimate is reliable. Justify your answer. [4]

(d) Complete the two empty rank rows in the table above. [2]

(e) (i) Find the value of the Spearman's rank correlation coefficient, r_s .

(ii) Comment on the result obtained for r_s . [4]

The Director of the *Elite Traveller* Magazine believes that the score for restaurant E was too high and decreased the score from 9.7 to 9.2.

(f) Explain why the value of the Spearman's rank correlation coefficient r_s does not change. [1]



Mark Scheme

(a) (i) $r = 0.961$ [by using G.D.C.]

(ii) Since the correlation coefficient is positive and close to 1, there is a very strong positive correlation between the *Elite Traveller*'s score and *Condé Nast Traveller*' score.

(b) $y = 0.685x + 2.38$ [by using G.D.C.]

(c) (i) Substituting $x = 10$ into the equation of the regression line, we get

$$y = 0.685(10) + 2.38$$

$$\approx 9.23$$

(ii) This estimate is not reliable as $x = 10$ falls out of the data range [5.6, 9.7].

(d) Rearranging the scores of these restaurants in descending order, we obtain their ranks for each magazine in the following table.

Restaurants	A	B	C	D	E	F	G	H
<i>Elite Traveller</i> 's rank	3	7	6	4	1	2	8	5
<i>Condé Nast Traveller</i> 's rank	1	6.5	6.5	3	1	2	8	4

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Michael Hoelscher

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this example shows you how to create a substructure and use it four times in the model as a leg support for storage vessel

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a substructure database is the set of files that describe the mechanical and geometrical properties of a substructure and abaqus writes all substructure data to the substructure database during the substructure generation analysis

substructure generation in abaqus imechanica - Mar 01 2022

dec 17 2013 i have created a substructure in abaqus as output i will like to see the substructure matrices mass stiffness and damping matrices however i m only able to write the mass and stiffness matrices to an output file mtx does anyone know how to create an output file including both the mass stiffness and damping matrices of the substructure

substructuring and substructure analysis massachusetts - Feb 12 2023

the basic substructuring idea is to consider a substructure a part of the model separately and eliminate all but the degrees of freedom needed to connect this part to the rest of the model so that the substructure appears in the model as a substructure a collection of finite elements whose response is defined by the stiffness and mass o

using substructures virginia tech - Dec 10 2022

substructures are collections of elements from which the internal degrees of freedom have been eliminated retained nodes

and degrees of freedom are those that are recognized externally at the usage level when the substructure is used in an analysis and they are defined during generation of the substructure

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limitations of structural elements membrane elements cannot be used to overlay a substructure that consists of second order three dimensional brick elements of type c3d20 r h if the substructure will be used as a slave surface normally abaqus standard automatically converts c3d20 r h brick elements to elements with midface nodes c3d27 r h because this

2 14 1 substructuring and substructure analysis - Apr 14 2023

in abaqus standard the response within a substructure once it has been reduced to a substructure is considered to be a linear perturbation about the state of the substructure at the time it is made into a substructure

substructure generate massachusetts institute of - Apr 02 2022

set this parameter equal to yes default if the substructure eigenproblem needs to be solved during substructure generation in abaqus substructure eigenvectors can be used to define substructure modal damping for a given substructure abaqus standard will evaluate the stiffness associated with frequency dependent springs and dashpots at

1 16 1 analysis of a frame using substructures - Mar 13 2023

the purpose of this example is to provide basic demonstration and verification of the substructuring capabilities in abaqus problem description the example is a frame consisting of two columns connected by a beam figure 1 16 1 1 the columns and the beam are each modeled with 10 elements of type b21 once a substructure has been