DATA: (Dissimilarities)

	Obj. 1	*Obj. 2*	*Obj. 3*	*Obj. 4*	*Obj. 5*
Obj. 1	–	3	6	10	2
Obj. 2	3	--	4	5	8
Obj. 3	6	4	--	7	9
Obj. 4	10	5	7	--	1
Obj. 5	2	8	9	1	--

DATA SORTED INTO ASCENDING ORDER:

(Column, Row) indices <j,k>	*(5,4)*	*(5,1)*	*(2,1)*	*(3,2)*	*(4,2)*	*(3,1)*	*(4,3)*	*(5,2)*	*(5,3)*	*(4,1)*
DATA: delta (j,k)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**

(N.b. data values are chosen to be ascending whole numbers merely for simplicity of exposition)

MONOTONE REGRESSION: Calculation of Disparities & Stress

(Column, Row) indices <j,k>	*(5,4)*	*(5,1)*	*(2,1)*	*(3,2)*	*(4,2)*	*(3,1)*	*(4,3)*	*(5,2)*	*(5,3)*	*(4,1)*
DATA: delta (j,k)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
CORRESPONDING DISTANCES IN CURRENT CONFIGURATION, *d(j,k)*	**3**	**6**	**3**	**5**	**8**	**10**	**13**	**11**	**9**	**15**
Monotone Regression disparities (calculations)	*3*									
		[4½	*4½]*							
				5	*8*	*10*				
							(11	*11*	*11)*	*15*
dhat(j,k)	**3**	**4½**	**4½**	**5**	**8**	**10**	**11**	**11**	**11**	**15**

SQUARED DIFFERENCES

diff. d(j,k) - dhat(j,k)	*0*	*3/2*	*-3/2*	*0*	*0*	*0*	*2*	*0*	*-2*	*0*
sq. diff. (d(j,k) - dhat(j,k))²	***0***	***9/4***	***9/4***	***0***	***0***	***0***	***4***	***0***	***4***	***0***
									Sum =	***12.5***

STRESS VALUES:

Raw stress (*dhat*) = ***sum (d(j,k) - dhat(j,k))²*** = **12.5**

Stress form 1 (*dhat*) = ***sqrt (Raw stress / NF1) = sqrt (12.5/839)*** = **0.2184** **(NF1 = sum (d(j,k)²)**