

OR-1 Software HW-3

Due : 2018/5/29 (Tue), in class

Place a different word from the word list on each of the 12 lines below. Use the letter values to score the columns of the words. The total of column 1 (extreme left column) must be less than the total of column2 and the total of column 2 must be less than the total of column3. Add the column totals to determine your score. *Highest score wins.* Ties, if any, will be broken by the highest total for column 1. If there are still ties, column 2 will be judged for the highest total.

Formulate this as an integer programming problem and solve it using program. Submit your output as well as the formulation.

Letter Values

A - 1	J - 10	S - 19	1. _____	9 _____
B - 2	K - 11	T - 20	2. _____	10 _____
C - 3	L - 12	U - 21	3. _____	11 _____
D - 4	M - 13	V - 22	4. _____	12 _____
E - 5	N - 14	W - 23	5. _____	
F - 6	O - 15	X - 24	6. _____	
G - 7	P - 16	Y - 25	7. _____	
H - 8	Q - 17	Z - 26	8. _____	
I - 9	R - 18			

TOTAL = _____

Word List

ADV	AFT	BET	BKS	CCW	CIR	DER	DIP	EAT	EGO
FAR	FIN	GHQ	GOO	HAT	HOI	HUG	ION	IVE	JCS
JOE	KEN	KKK	LIP	LYE	MOL	MTG	NES	NTH	OIL
OSF	PIP	PRF	QMG	QUE	ROE	RUG	STG	SIP	TUE
TVA	UTE	VIP	WHO	XIN	YES	ZIP	CAT	MRP	IOR