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Please indicate your answers by entering the option ((i), (ii), (iii) or (iv)) where asked. You should append the completed document as a pdf with your typewritten worked solutions including MATLAB code) and upload to Blackboard by Friday 22nd of March 2019.

Q 4.23

(i)				
L =				
	1.5000	0	0	0
	-2.0000	1.0000	0	0
	0.5000	1.0000	1.5000	0
	-2.0000	3.5000	-0.5000	1.0000
U =				
	4.0000	-1.0000	3.0000	2.0000
	0	-1.0000	3.0000	0.5000
	0	0	2.0000	1.0000

0

3.0000

0

(ii)

0

L =				
	1.0000	0	0	0
	-2.0000	1.0000	0	0
	0.5000	1.5000	1.0000	0
	-2.0000	3.0000	-0.5000	1.0000
U =				
	4.0000	-1.0000	3.0000	2.0000
	0	-2.0000	3.0000	0.5000
	0	0	4.0000	2.0000
	0	0	0	3.0000

(i	i	i)
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L =				
	1.5000	0	0	0
	-2.0000	1.0000	0	0
	0.5000	1.0000	1.0000	0
	-2.0000	2.0000	-0.5000	1.0000
U =				
	3.0000	-1.5000	3.0000	2.0000
	0	-2.0000	3.0000	0.5000
	0	0	4.0000	2.5000
	0	0	0	1.0000

(iv)

L =				
	1.5000	0	0	0
	-2.0000	1.5000	0	0
	0.5000	1.5000	1.5000	0
	-2.0000	3.0000	-0.5000	1.5000
U =				
	4.0000	-1.0000	3.0000	2.0000
	0	-2.0000	3.0000	0.5000
	0	0	4.0000	2.0000
	0	0	0	2.0000

Your Answer ((i) - (iv)): (ii)

Q 5.17

You need only to indicate the best team and the worst team (from teams 1 to 6).

Your Answers: Best: X2 and X5 (joint) Worst: X1

- (i)
- $b=4.6831 \times 10^{-8}$, m=0.022, population(1985)=1014 million $b=4.8932 \times 10^{-8}$, m=0.022, population(1985)=1024 million $b=4.6931 \times 10^{-8}$, m=0.012, population(1985)=1038 million $b=4.9932 \times 10^{-8}$, m=0.014, population(1985)=1042 million(ii)
- (iii)
- (iv)

Your Answer ((i)-(iv)): This was removed from the assignment (see email)