IDAPI Coursework 4

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# Question 2 - HepC Mean Vector

[ 1.1638756 3.91626794 0.44796651 5.67882775 4.86543062 3.77811005

4.12739234 3.60406699 0.21650718]

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# Question 3 - HepC Covariance

[[ 5.87625484e+00 2.44582885e-01 -4.03278886e-03 -2.84090194e-01

-3.45770329e-01 -4.16986934e-01 -4.80804726e-01 -2.67054040e-01

-6.71788077e-02]

[ 2.44582885e-01 7.56715162e+00 7.33943248e-02 -3.57634040e-01

-3.45597914e-01 2.57138401e-01 2.27143237e+00 9.45316614e-01

-3.15125569e-02]

[ -4.03278886e-03 7.33943248e-02 2.47292516e-01 -1.15694967e-01

-3.89997224e-02 -3.47154655e-03 9.96310610e-02 6.61207104e-02

-5.48078684e-03]

[ -2.84090194e-01 -3.57634040e-01 -1.15694967e-01 1.69500781e+01

7.96395708e+00 4.44009874e+00 -1.03564014e+00 -3.05990448e-01

4.68088242e-02]

[ -3.45770329e-01 -3.45597914e-01 -3.89997224e-02 7.96395708e+00

8.35569491e+00 4.91810691e+00 -7.62163112e-01 -7.51845053e-01

-7.69070076e-04]

[ -4.16986934e-01 2.57138401e-01 -3.47154655e-03 4.44009874e+00

4.91810691e+00 6.67863566e+00 -8.71635408e-02 -3.75532983e-01

-1.40954448e-01]

[ -4.80804726e-01 2.27143237e+00 9.96310610e-02 -1.03564014e+00

-7.62163112e-01 -8.71635408e-02 2.05704937e+01 1.12101300e+00

1.36865857e-02]

[ -2.67054040e-01 9.45316614e-01 6.61207104e-02 -3.05990448e-01

-7.51845053e-01 -3.75532983e-01 1.12101300e+00 4.31452891e+00

1.19215162e-01]

[ -6.71788077e-02 -3.15125569e-02 -5.48078684e-03 4.68088242e-02

-7.69070076e-04 -1.40954448e-01 1.36865857e-02 1.19215162e-01

1.69631819e-01]]

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# Question 4 – c.pgm component magnitudes

[ 760.94139095 -1028.79515385 -454.66260971 -897.266357 426.36848431

-839.76341027 698.29318617 192.03527077 78.77011092 -708.09956427]

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# Eigenfaces – Task 4.3





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# Reconstructed Images – Task 4.4



