13. Ax = 2x manglytha 3 = mag(xTAx, xZAz ... xm Aa.3 = man [7, A)x , 2, 122, ... 727727 = mart 7, 47, 112, 7, 2/1 72/12, - 7, 117, 123 given 1/20/2/ = mang 71, 72 -.. 7 n 3 > Solution is given by largest eigen value 14 Succe the repair is fullback square making Amond Size n it has n eigen value N = [2, -.. x2] AV-ATM. .. xz] AN = [7,7,2,7, -.. 2n7n]  $= \begin{bmatrix} \lambda_1 \lambda_1 & \lambda_2 \lambda_{12} & - \lambda_1 \lambda_1 \\ \lambda_1 \lambda_2 & \lambda_2 \lambda_{12} & - \lambda_2 \lambda_2 \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ 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& \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_n & \lambda_n \lambda_n \\ \vdots & \vdots & \vdots \\ \lambda_n \lambda_$ 212mi 22 xnz Tanna AN = | 211 212 21 71, 00 - 7

Page No.: YOUVA Date: 15 24 = 1121111y11 cos 0 20=Ax, y=Ay 2)y= |12'11 |1y'11 (ab = |An1 11 Ay 1) ros \$ = | A| 2/1 x/1/1/4/1/00\$

=> 1/2/1/1/1/1000 = 1/2/1/1/1/1/1/100 => (000 => 1/000)

D=8 E