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TFOS-2017 > Paper II
5 (b) correte a BASIC program to compute the multiplicative
 inverse of a non-singular square matrix.
=> # include 25tdio.h)
  # Include ( Conio. W)
  # include (math-h)
  Void main ()
  float a [10] [10], b [10] [10], 91;
   int i, j, k,n;
   Print f ("In Enter the order of the meeting: ");
   scanf ("/,d", 4n);
   Prantf ("In Enter a matrix Row-enise In");
  for(i=1; i/=n; i++)
   forcj=1; うく= かうゴナナ)
    sconf("1.f", La[i][j]);
    Frunt ("\n");
```

for (i=1; i(=n; i++) for(12); j(=n; j++) b[i][j] = 0.0; b[i][i] = 1.0; 7 for (K=1; K<=n; K++) for( i=1; i <= "; i++) with X=X - gridue :f(i==k)continue; on = a[i][k]/a[k][k]; alik] for (3=1; j(=n; j++) a[i][i] = a[i][i] - x \* a[k][i]; 的门门口口的门门一刀\*日【灯门门; M Liver for (i=1; i <= n; i++) fox (j=1; j <= n; j++) b[i][i] = b[i][i] /a[i][i]; Printf ("In The Inverse Matrix is for(121; i(=n; i++) for(j=1; j(=n; j++) Prantf ("7.25f", b[i][i]); Prantf("1"); getch ();

7 (d) Assuming a 32 bit computer prepresentation of Signed integers using 2's complement representation and the two numbers -1 and -1024 and give the answer in 2's complement representation. => in 32 bit Computer => 1 = 00000000 00000000 00000000 00000001 1's Complement of 1 is, mini madin amini so, the 2' complement is Now, 1024 = 00000000 00000000 00000100 00000000 1's Complement of 1024 is, HILLIN THERE THE THEOR THEFTH 30, the 2's Complement is, (-1024)<sub>2</sub>= |1111111 11111111 11111100 00000000 1111111 00000000 11111100 1) 1111 1111 1111 1111 This mean its 1-1 ve 11111111 11011111  $= 1 \times 2^{10} + 1 \times 2^{0}$ = 1024+1 - 1025 = - (-1025)