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/* PROGRAM TO FIND MULTIPLICATION OF TWO GIVEN
MATRICES A and B OF ORDER lXm AND mXn RESPECTIVELY*/
#include <stdio.h>

int main()
{
    printf("20BCS065  RAVI GOWRI JASWANTH\n\n");

    int a[4][5], b[5][6], c[4][6];
    int l, m, n, i, j, k;

    printf("Enter values of l,m and n: ");
    scanf("%d %d %d", &l, &m, &n);

    printf("Enter matrix A of order %dX%d:-\n", l, m);
    for (i = 0; i < l; i++)
    {
        for (j = 0; j < m; j++)
        {
            scanf("%d", &a[i][j]);
        }
    }
    printf("Enter matrix B of order %dX%d:-\n", m, n);
    for (i = 0; i < m; i++)
    {
        for (j = 0; j < n; j++)
        {
            scanf("%d", &b[i][j]);
        }
    }

    // PRINTING MATRIX A
    printf("\nMatrix A is:\n");
    for (i = 0; i < l; i++)
    {
        for (j = 0; j < m; j++)
        {
            printf("%d ", a[i][j]);
        }
        printf("\n");
    }
    // PRINTING MATRIX B
    printf("\nMatrix B is:\n");
    for (i = 0; i < m; i++)
    {
        for (j = 0; j < n; j++)
        {
            printf("%d ", b[i][j]);
        }
        printf("\n");
    }

    // OUTPUT MATRIX C
    printf("\nMatrix C is:\n");

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for (i = 0; i < l; i++)
{
    for (j = 0; j < n; j++)
    {
        c[i][j] = 0;
        for (k = 0; k < m; k++)
        {
            c[i][j] += a[i][k] * b[k][j];
        }
        printf("%d ", c[i][j]);
    }
    printf("\n");
}
}
```