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#include <stdio.h>

int main() {

int arr1[50][50], brr1[50][50], crr1[50][50], i, j, n;

printf("\n\nAddition of two Matrices :\n");

printf("------------------------------\n");

printf("Input the size of the square matrix : ");

scanf("%d", &n);

// Input elements for the first matrix

printf("Input elements in the first matrix :\n");

for (i = 0; i < n; i++) {

for (j = 0; j < n; j++) {

printf("element - [%d],[%d] : ", i, j);

scanf("%d", &arr1[i][j]);}

}

// Input elements for the second matrix

printf("Input elements in the second matrix :\n");

for (i = 0; i < n; i++) {

for (j = 0; j < n; j++) {

printf("element - [%d],[%d] : ", i, j);

scanf("%d", &brr1[i][j]);}

}

// Display the first matrix

printf("\nThe First matrix is :\n");

for (i = 0; i < n; i++) {

printf("\n");

for (j = 0; j < n; j++)

printf("%d\t", arr1[i][j]);}

// Display the second matrix

printf("\nThe Second matrix is :\n");

for (i = 0; i < n; i++) {

printf("\n");

for (j = 0; j < n; j++)

printf("%d\t", brr1[i][j]);}

// Calculate the sum of the matrices

for (i = 0; i < n; i++)

for (j = 0; j < n; j++)

crr1[i][j] = arr1[i][j] + brr1[i][j];

// Display the addition of two matrices

printf("\nThe Addition of two matrix is : \n");

for (i = 0; i < n; i++) {

printf("\n");

for (j = 0; j < n; j++)

printf("%d\t", crr1[i][j]);

}

printf("\n\n");

return 0;

}