Faculty of Computer Science & Engineering

Assignment Number – 6

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Roll no.: 102032 PRN no.: 1032190054

#include <stdio.h>

#include <math.h>  
  
void main() {  
 int a , b , i , j , k , l;  
 printf("\nEnter the no. of rows\n");  
 scanf("%d" , &a);  
 printf("Enter the no. of columns\n");  
 scanf("%d" , &b);  
 int mat[3][a][b];  
 printf("1. Subtract\n2. Add\n");  
 scanf("%d" , &l);  
 printf("\nEnter first matrix\n");  
 for(i = 0 ; i < 2 ; i++)  
 {  
 for(j = 0 ; j < a ; j++)  
 {  
 for(k = 0 ; k < b ; k++)  
 {  
 scanf("%d" , &mat[i][j][k]);  
 }  
 }  
 if(i < 1)  
 printf("\nEnter next matrix\n");  
 }  
 for(j = 0 ; j < a ; j++)  
 {  
 for(k = 0 ; k < b ; k++)  
 {  
 mat[2][j][k] = mat[0][j][k] + (mat[1][j][k]\*pow(-1,l));  
 }  
 }  
 printf("\nThe sum is:\n");  
 for(j = 0 ; j < a ; j++)  
 {  
 for(k = 0 ; k < b ; k++)  
 {  
 printf("%d\t" , mat[2][j][k]);  
 }  
 printf("\n");  
 }  
 printf("\n");  
}

Assignment 6 Output

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Enter the no. of rows

4

Enter the no. of columns

4

1. Subtract

2. Add

2

Enter first matrix

10 20 30 40

40 30 20 10

50 60 70 80

80 70 60 50

Enter next matrix

11 22 33 44

66 55 44 99

55 11 33 44

99 44 66 77

The sum is:

21 42 63 84

106 85 64 109

105 71 103 124

179 114 126 127





