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State: Karnataka

City: India

Student/Professional: Student

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```
2 2
1 3
2 4
1 2
4 3
```

```
Enter the number of rows and columns of matrices
2 2
Enter the elements of first matrix
1 3
2 4
Enter the elements of second matrix
```

```
2 2
1 3
2 4
1 2
4 3
```

```
Enter the elemnts of second matrix

1  2  
4  3  
The sum of matrices is
2  5  
6  7
```

```
2 2
1 3
2 4
1 2
4 3
```

```
The difference of matrices is

1 -2 1
```

```
3 3
9 8 7
6 5 4
3 2 1
1 2 3
4 5 6
7 8 9
```

```
Enter the number of rows and columns of matrices

3    3
Enter the elements of first matrix

9    8    7
6    5    4
3    2    1
```

```
3 3
9 8 7
6 5 4
3 2 1
1 2 3
4 5 6
7 8 9
```

```
Enter the elemnts of second matrix

1   2   3

4   5   6

7   8   9

The sum of matrices is
```

```
3 3
9 8 7
6 5 4
3 2 1
1 2 3
4 5 6
7 8 9
```

```
The sum of matrices is
10 10 10
10 10 10
10 10
The difference of matrices is
```

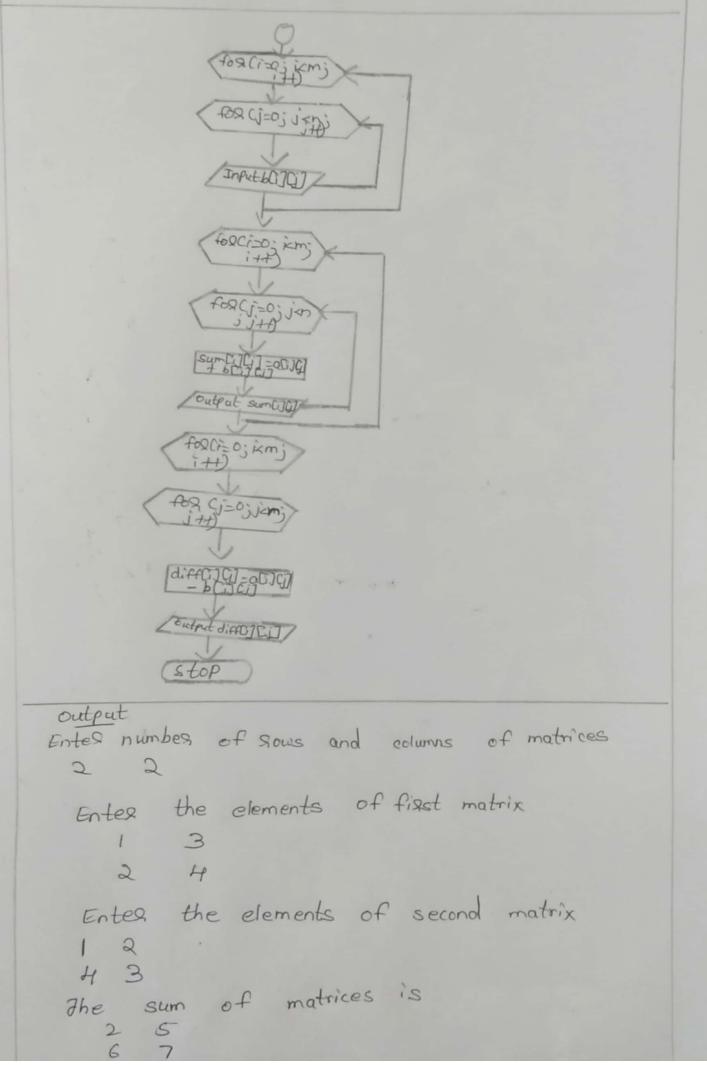
```
3 3
9 8 7
6 5 4
3 2 1
1 2 3
4 5 6
7 8 9
```

```
The difference of matrices is 8 6 4 2 0 -2 -4 -6 -8
```

Addition and Subtraction of Matrix Program # include <stdio-h> int main () int a[20][20], b[20][20], i,j, m,n, sum [20][20]. paintf (" Enter the number of gouss and columns of matrices (n") Scanf ("1-d-1-d", &m. &n); print fc" Enter the elements of first matrix "); for Ci=0; icm; itt) for (j=0) janjit) 2 scarf ("1.d", & aci7cj]); paintf("In"); printfc" In Enter the elements of second matrix in"; forciso; ixm; i++) forci=0; jenjutt) 2 scorf ("1.d", &sci7(i)); & psintf("(n"); paintf (" In the sum of matrices is (n"); forcios ism; itt forcies jensitt)

```
& sum CiJCj] = aCiJCj] + bCiJCj]
     paints c".1.d(t", sum [i][i]);
   Paintf ("In");
 2
   Printf(" In the difference of matrices is In");
    fog ci=o; icm; i+1)
  €
fox (j=0; j<n;j++)
       2 diffcistis = acistis - bcistis;
        Prints (".1.dlt", diffcij(j));
     3 Paintf ("In");
    setuan (o);
                Algrozithm
step) -stoat
step2 - Input min
step3 - Repeat foxcizo; icm; itt)
        Repeat for Gi=0jjenjjtt
              Input alijaj
               CEND PORT
               CEnd FOR
Step 4 - Repeat POR Cisos icms itt)
          Repeat for Gi=Osjemsitt)
             CENT PORT ACIJ CI
```

```
steps - Repeat foxcieo; im; it)
         Repeat for Ci=o; janjitt)
            sum CijCij = acijCj] + bcijCj]
              output sum [i][j]
           CEND FOR 7
           CENd fox ?
 Steps - Repeat PORCI=0; ikm; i+t)
           Repeat for (j=0; jxn; j+t)
           2 diffCiJ GjJ = OCIJGjJ - bCiJGjJ
              output diff [i][i]
              [End fog]
             (End fox)
   step - stop.
                 Flowchost
                   Stant
                  Trout min
                 PORCJ=OjKnj
                Irput acisci]
```



```
The difference of matrices is
0 1
-2 1
       output 2
Enter the number of soms and columns of
 matrices
Enter the elements of first matrix
 9 8 7
  6 5 4
  3 21
 Enter the elements of second matrix
  1 2 3
   4 56
   7 89
 The sum of matrices is
   10 10 10
    10 10 10
   10 10 10
 The difference of matrices is
    8 6 4
    2 0 - 2
    -4 -6 -8
```