Code, Compile & Run

Ide

C++14 (gcc 6.3)

```
#include <stdio.h>
int main()
{
    int m,n;
    scanf("%d%d",&m,&n);
    int i,j;
    int mat1[m][n],mat2[m][n],mat3[m][n];
    for(i=0;i<m;i++)
    {
        for(j=0;j<n;j++)
        scanf("%d",&mat1[i][j]);
    }
    for(i=0;i<n;i++)
    {
        for(j=0;j<n;j++)
        scanf("%d",&mat2[i][j]);
    }
    for(i=0;i<m;i++)
    {
        for(j=0;j<n;j++)
        {
            mat3[i][j]=mat1[i][j]*mat2[i][j];
        }
    }
    for(i=0;i<m;i++)
    {
        for(j=0;j<n;j++)
        printf("%d",mat3[i][j]);
```

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Open File ✓Custom Input Run

Custom Input

```
2 2
1 2 3 4
2 3 4 5
```

Status Successfully executed Date 2020-06-11 05:31:37 Time 0 sec Mem 15.232 kB

Input

```
2 2
1 2 3 4
2 3 4 5
```

Output

```
35
79
```

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Code, Compile & Run

Ide ✖ +

C++14 (gcc 6.3)

```
    int m,n;
    scanf("%d%d",&m,&n);
    int i,j;
    int mat1[m][n],mat2[m][n],mat3[m][n];
    for(i=0;i<m;i++)
    {
        for(j=0;j<n;j++)
        scanf("%d",&mat1[i][j]);
    }
    for(i=0;i<n;i++)
    {
        for(j=0;j<n;j++)
        scanf("%d",&mat2[i][j]);
    }
    for(i=0;i<m;i++)
    {
        for(j=0;j<n;j++)
        {
            mat3[i][j]=mat1[i][j]+mat2[i][j];
        }
    }
    for(i=0;i<m;i++)
    {
        for(j=0;j<n;j++)
        printf("%d",mat3[i][j]);
        printf("\n");
    }
    return 0;
}
```

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Open File ✓Custom Input Run

Custom Input

```
2 2
1 2 3 4
2 3 4 5
```

Status Successfully executed **Date** 2020-06-11 05:31:37 **Time** 0 sec **Mem** 15.232 kB ✖

Input

```
2 2
1 2 3 4
2 3 4 5
```

Output

```
35
79
```

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Code, Compile & Run

Ide

C++14 (gcc 6.3)

```
#include <stdio.h>
int main()
{
    int m,n;
    scanf("%d%d",&m,&n);
    int i,j;
    int mat1[m][n],mat2[m][n],mat3[m][n];
    for(i=0;i<m;i++)
    {
        for(j=0;j<n;j++)
        scanf("%d",&mat1[i][j]);
    }
    for(i=0;i<n;i++)
    {
        for(j=0;j<n;j++)
        scanf("%d",&mat2[i][j]);
    }
    for(i=0;i<m;i++)
    {
        for(j=0;j<n;j++)
        {
            mat3[i][j]=mat1[i][j]-mat2[i][j];
        }
    }
    for(i=0;i<m;i++)
    {
        for(j=0;j<n;j++)
        printf("%d",mat3[i][j]);
```

21 34

Open File

Custom Input

Run

Custom Input

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

Status Successfully executed Date 2020-06-11 05:34:37 Time 0 sec Mem 15.232 kB

Input

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

Output

```
44
44
```

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Code, Compile & Run

Ide ✖ +

C++14 (gcc 6.3)

```
5       scanf("%d%d",&m,&n);
6       int i,j;
7       int mat1[m][n],mat2[m][n],mat3[m][n];
8       for(i=0;i<m;i++)
9       {
10          for(j=0;j<n;j++)
11          scanf("%d",&mat1[i][j]);
12      }
13      for(i=0;i<n;i++)
14      {
15          for(j=0;j<n;j++)
16          scanf("%d",&mat2[i][j]);
17      }
18      for(i=0;i<m;i++)
19      {
20          for(j=0;j<n;j++)
21          {
22              mat3[i][j]=mat1[i][j]-mat2[i][j];
23          }
24      }
25      for(i=0;i<m;i++)
26      {
27          for(j=0;j<n;j++)
28          printf("%d",mat3[i][j]);
29          printf("\n");
30      }
31      return 0;
32  }
```

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Open File ✓Custom Input Run

Custom Input

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

Status Successfully executed **Date** 2020-06-11 05:34:37 **Time** 0 sec **Mem** 15.232 kB ✖

Input

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

Output

```
44
44
```

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Priyanka : Shet
4AL19CS070

(i) Algorithm (Matrix addition)

step 1 : start
step 2 : Input the order of the matrix
step 3 : Input the matrix 1 elements
step 4 : Input the matrix 2 elements
step 5 : Repeat from i = 0 to m
step 6 : Repeat from j = 0 to n
step 7 : mat3[i][j] = mat1[i][j] + mat2[i][j]
step 8 : Print mat3
step 9 : Stop.

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(ii) Algorithm (Matrix subtraction)

Step 1 : Start
Step 2 : Input the order of the matrix
Step 3 : Input the matrix 1 elements
Step 4 : Input the matrix 2 elements
Step 5 : Repeat from i = 0 to m
Step 6 : Repeat from j = 0 to n
Step 7 : mat3[i][j] = mat1[i][j] - mat2[i][j]
Step 8 : Print mat3
Step 9 : Stop.

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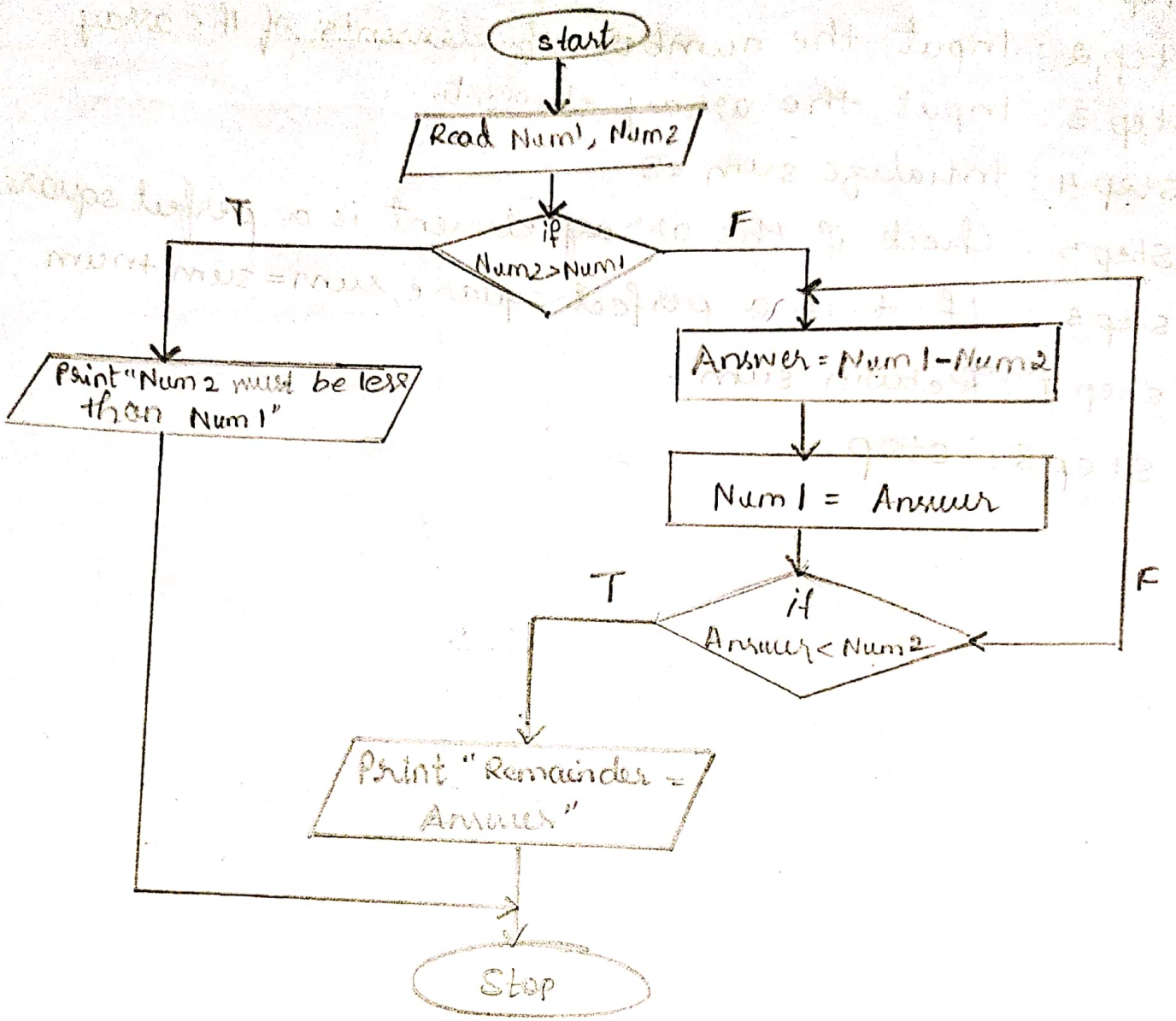
Flowchart (subtraction)



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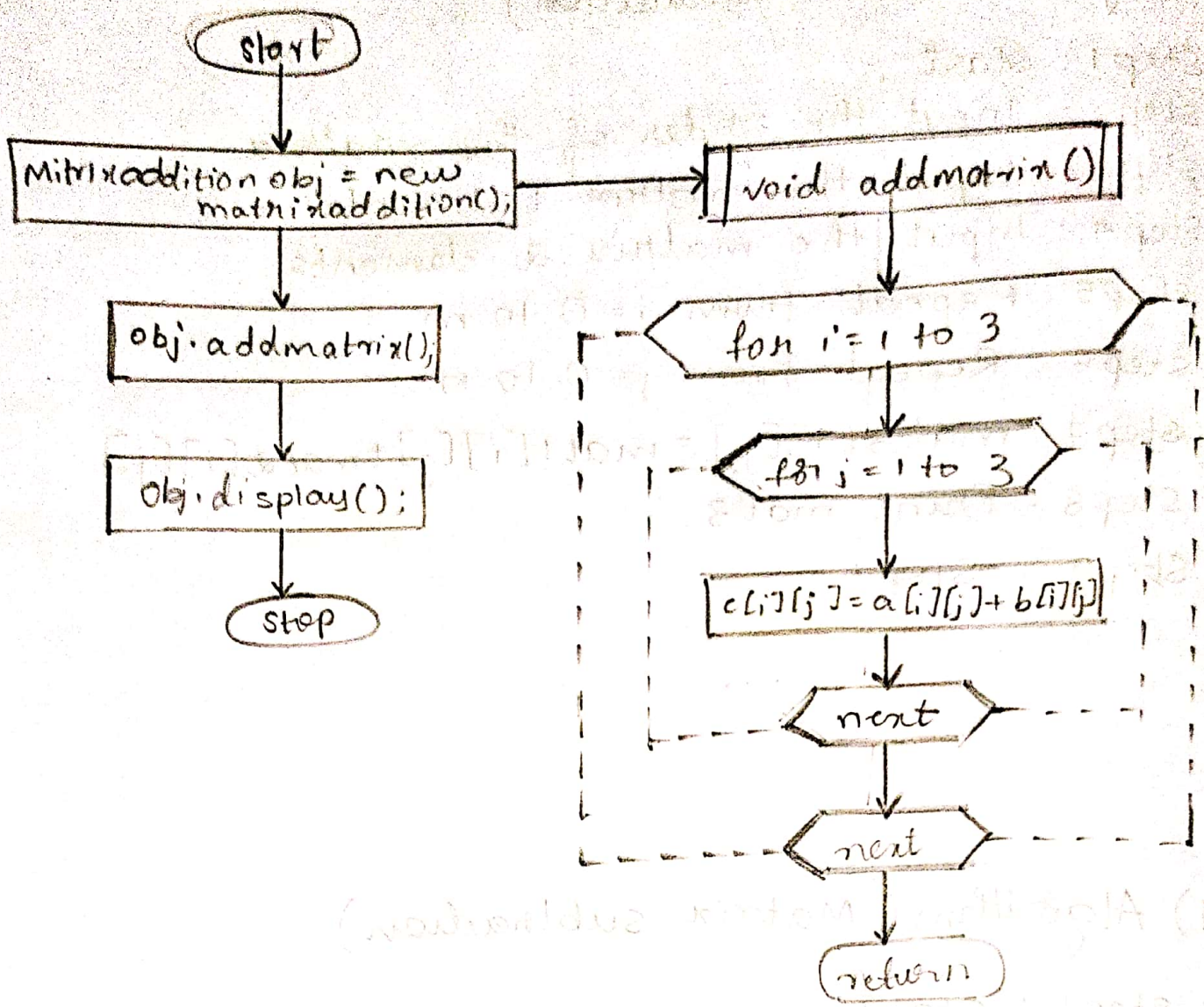
Flowchart (addition)



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