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Alvas Institute of Engineering and ✓

2020 ▾

C(gcc 6.3) ▾

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Code, Compile & Run

C++14 (gcc 6.3)

```c
#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]);
        printf("\n");
```

6:28

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
```

Code, Compile & Run

C++14 (gcc 6.3) ▼   ⓘ ⤓ ⤢ ⚙

```
 4    int m,n;
 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 }
```

6:28   ↻

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
```

Code, Compile & Run

C++14 (gcc 6.3)   ▼   ⓘ   ⬆   ↗   ⚙

```
1   #include <stdio.h>
2   int main()
3   {
4       int m,n;
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");
```

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
```

Code, Compile & Run

C++14 (gcc 6.3) ▾   ⓘ   ⬆   ↗   ⚙

```cpp
4        int m,n;
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   }
```

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
```

C Program to implement matrix addition & Substraction

Algorithm:

Matrix Addition:

1. Start
2. Input the Order of the matrix
3. Input the matrix 1 elements
4. Input the matrix 2 elements
5. Repeat from i=0 to m
6. Repeat from j=0 to n
7. mat 3[i][j] = mat1[i][j] + mat 2[i][j]
8. Print mat 3
9. Stop.

Matrix Substraction:-

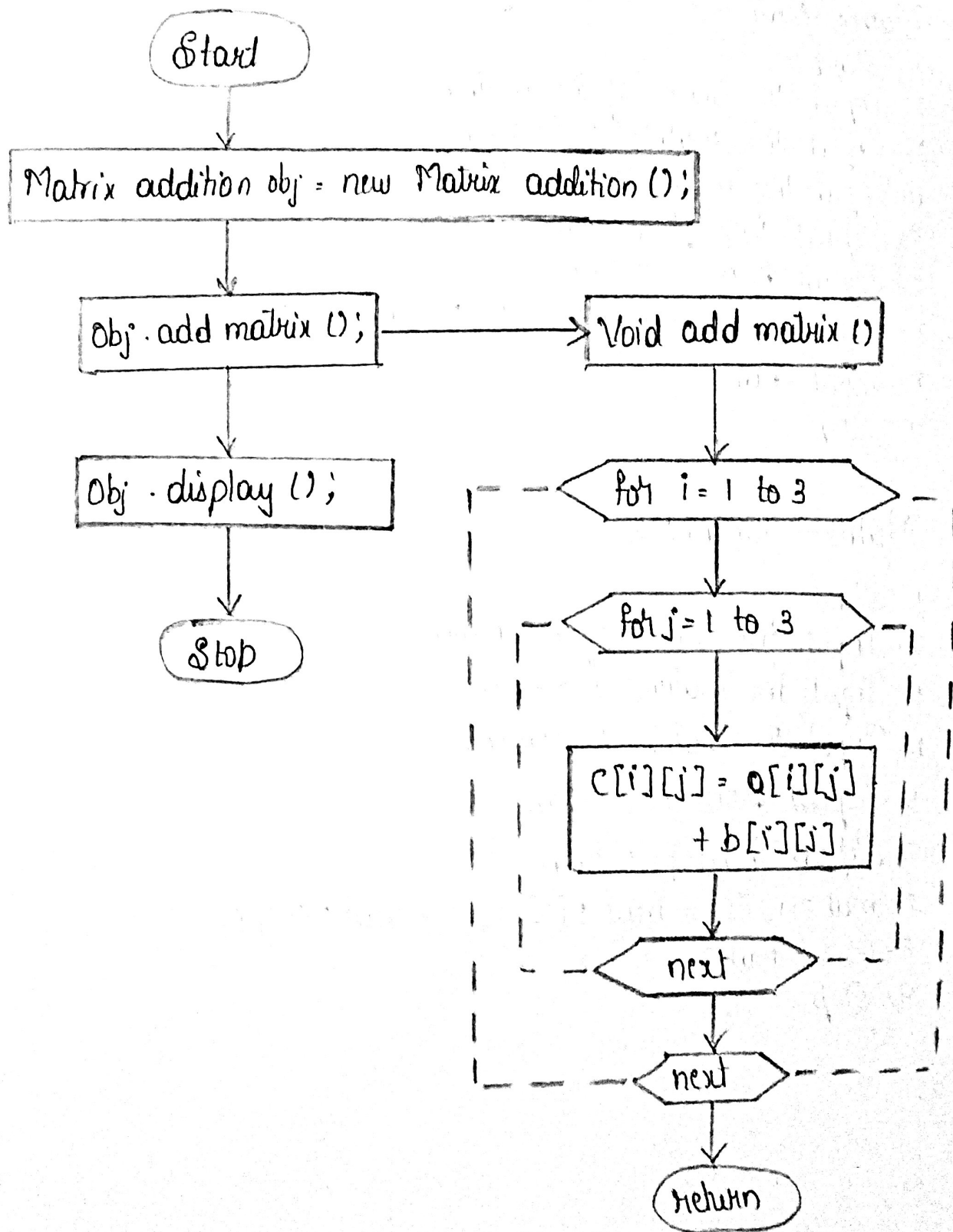1. Start
2. Input the Order of the matrix
3. Input the matrix 1 elements
4. Input the matrix 2 elements
5. Repeat from i=0 to m
6. Repeat from j=0 to n
7. mat 3[i][j] = mat 1[i][j] = -mat2[i][j]
8. Print mat 3
9. Stop

Flowchart :
Matrix addition

```
                        ┌─────────┐
                        │  Start  │
                        └─────────┘
                             │
                             ▼
  ┌─────────────────────────────────────────────────────┐
  │  Matrix addition obj = new Matrix addition ();        │
  └─────────────────────────────────────────────────────┘
                             │
                             ▼
        ┌────────────────────────┐        ┌──────────────────┐
        │  Obj . add matrix ();  │───────▶│  Void add matrix ()│
        └────────────────────────┘        └──────────────────┘
                     │                              │
                     ▼                              ▼
        ┌────────────────────────┐          ⬡ for i = 1 to 3 ⬡
        │   Obj . display ();    │                 │
        └────────────────────────┘                 ▼
                     │                     ⬡ for j = 1 to 3 ⬡
                     ▼                              │
                ┌─────────┐                         ▼
                │  Stop   │                ┌──────────────────┐
                └─────────┘                │  c[i][j] = a[i][j]│
                                           │     + b[i][j]     │
                                           └──────────────────┘
                                                    │
                                                    ▼
                                               ⬡  next  ⬡
                                                    │
                                                    ▼
                                               ⬡  next  ⬡
                                                    │
                                                    ▼
                                              ┌─────────┐
                                              │ return  │
                                              └─────────┘
```

Flow chart:

Matrix Substraction:

Start

Read
Num1 , Num 2

if
NUM 2 > Num2

Yes

No

Print "NUM2 must
be less than NUM1

Answer = NUM1 - NUM2

NUM 1 = ANSWER

if
ANSWER < NUM 2

Yes

NO

Print "Remainder
= ANSWER"

Stop