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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Problem Solving Through Programming In C (course)



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Course outline

How does an NPTEL online course work? ()

Week 0: ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

## Week 7: Programming Assignment 3

Due on 2023-09-14, 23:59 IST

Write a C program to find subtraction of two matrices i.e. matrix\_A - matrix\_B=matrix\_C.

If the given martix are

2 3 5 and 1 5 2 Then the output will be 1 -2 3 4 5 6 2 3 4 2 2 2 6 5 7 3 3 4 3 2 3

The elements of the output matrix are separated by one blank space

Private Test cases used for evaluation Input Expected Output Actual Output Status

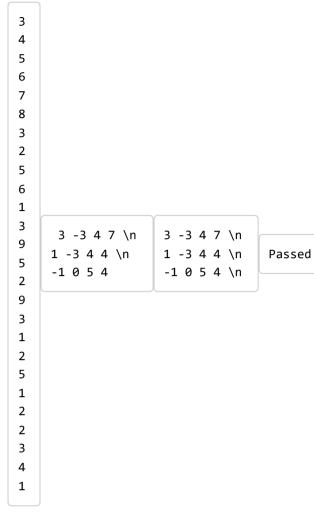
## Week 6 ()

## Week 7 ()

- Lecture 31 : Linear Search (unit? unit=69&lesso n=70)
- Character
  Array and
  Strings (unit?
  unit=69&lesso
  n=71)
- O Lecture 33:
  String
  Operations
  (unit?
  unit=69&lesso
  n=72)
- D Lecture 34 : 2-D Array Operation (unit? unit=69&lesso n=73)
- Lecture 35:
  Introducing
  Functions
  (unit?
  unit=69&lesso
  n=74)
- Quiz: Week 7: Assignment 7 (assessment? name=248)
- Week 7:

   Programming
   Assignment 1
   (/noc23\_cs121
   /progassignment?
   name=249)
- Week 7:
   Programming
   Assignment 2
   (/noc23\_cs121
   /progassignment?
   name=250)

Test Case 1



The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You passed 100 0/100

You scored 100.0/100.

## Assignment submitted on 2023-09-02, 23:29 IST

Your last recorded submission was :

```
1 #include <stdio.h>
   int main()
 3
         int matrix_A[20][20], matrix_B[20][20], matrix_C[20][20];
        int i,j,row,col;
scanf("%d",&row); //Accepts number of rows
scanf("%d",&col); //Accepts number of columns
 5
 6
 8
         /* Elements of first matrix are accepted from test data */
        for(i=0; i<row; i++)</pre>
10
11
12
              for(j=0; j<col; j++)</pre>
13
                   scanf("%d", &matrix A[i][j]);
14
15
              }
16
        }
17
18
          /* Elements of second matrix are accepted from test data */
19
        for(i=0; i<row; i++)</pre>
20
21
22
              for(j=0; j<col; j++)</pre>
23
24
                   scanf("%d", &matrix_B[i][j]);
25
26
        }
```

- Week 7:

   Programmin
   g Assignment

   (/noc23\_cs12
   1/progassign ment?
   name=251)
- Week 7:

   Programming
   Assignment 4
   (/noc23\_cs121
   /progassignment?
   name=252)
- Feedback
  Form of Week
  7 (unit?
  unit=69&lesso
  n=255)
- Assignment 7 Solution (unit? unit=69&lesso n=76)

Week 8 ()

Week 9 ()

Week 10 ()

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Text
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Problem Solving Session -July 2023 ()

```
27
      /* Complete the program to get the desired output. Use printf() statement as
    printf("%d ", matrix_C[i][j]); You can declare your own variables if requ
  29
  30
  31
      for(i=0;i<row;i++)</pre>
  32
      for(j=0;j<col;j++)
  printf("%d ",matrix_A[i][j]-matrix_B[i][j]);
  printf("\n");</pre>
  33
  35
  36
  37
     return 0;
  38 }
Sample solutions (Provided by instructor)
   1 #include <stdio.h>
   2
      int main()
   3
   4
            int matrix A[20][20], matrix B[20][20], matrix C[20][20];
           int i,j,row,col;
scanf("%d",&row); //Accepts number of rows
scanf("%d",&col); //Accepts number of columns
   5
   6
   7
   8
   9
            /* Elements of first matrix are accepted from test data */
  10
            for(i=0; i<row; i++)</pre>
  11
  12
                 for(j=0; j<col; j++)</pre>
  13
  14
                       scanf("%d", &matrix A[i][j]);
  15
  16
            }
  17
             /* Elements of second matrix are accepted from test data */
  18
  19
  20
            for(i=0; i<row; i++)</pre>
  21
  22
                 for(j=0; j<col; j++)</pre>
  23
  24
25
                      scanf("%d", &matrix_B[i][j]);
  26
            }
  27
  28
          Complete the program to get the desired output. Use printf() statement as printf("%d", matrix\_C[i][j]); You can declare your own variables if requ
  29
  30
  31
  32
            Subtract both matrices and store the result in matrix C
  33
  34
          for(i=0; i<row; i++)</pre>
  35
  36
                 for(j=0; j<col; j++)</pre>
  37
  38
  39
                      matrix_C[i][j] = matrix_A[i][j] - matrix_B[i][j];
  40
  41
            }
  42
  43
             for(i=0; i<row; i++)</pre>
  44
  45
                 for(j=0; j<col; j++)</pre>
  46
  47
                       printf("%d ", matrix C[i][j]);
  48
  49
                 printf("\n");
  50
            }
  51
  52
            return 0;
  53 }
```