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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 10 : Programming Assignment 02

Due on 2023-10-05, 23:59 IST

Write a C code to check if a 3 x 3 matrix is invertible. A matrix is not invertible if its determinant is 0.

Your last recorded submission was on 2023-10-05, 09:39 IST

Select the Language for this assignment. C

```c
#include<stdio.h>
 int main()
{
  int a[3][3], i, j;
  long determinant;
 //  9 elements of matrix is taken as input from test data
  for(i = 0 ; i < 3; i++)
      for(j = 0; j < 3; j++)
           scanf("%d", &a[i][j]);

/*Use the printf statements as:
printf("The given matrix is not invertible");
printf("The given matrix is invertible");
*/
determinant=a[0][0]*((a[1][1]*a[2][2])-(a[2][1]*a[1][2]))-a[0][1]*(a[1][(
if(determinant==0)
  printf("The given matrix is not invertible");
else
  printf("The given matrix is invertible");
return 0;
}
```

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

- Lecture 46: Bubble Sort (Contd.) (unit?unit=93&lesson=94)
- Lecture 47: Use of Pointer in Function : Context Bubble Sort (unit?unit=93&lesson=95)
- Lecture 48: Arrays at Strings (unit?unit=93&lesson=96)
- Lecture 49: Data Representation (unit?unit=93&lesson=97)
- Lecture 50: Bisection Method (unit?unit=93&lesson=98)
- Quiz: Week 10 : Assignment 10 (assessment?name=267)
- Week 10 : Programming Assignment 01 (/noc23_cs121/progassignm

You may submit any number of times before the due date. The final submission will be considered for grading.

This assignment has Public Test cases. Please click on "Compile & Run" button to see the status of Public test cases. Assignment will be evaluated only after submitting using Submit button below. If you only save as or compile and run the Program , your assignment will not be graded and you will not see your score after the deadline.

Save as Draft | Compile & Run | Submit | Reset

Sample Test Cases

	Input	Output
Test Case 1	1 2 3 4 5 6 7 8 9	The given matrix is not invertible
Test Case 2	1 0 5 2 1 6 3 4 0	The given matrix is invertible

ent?
name=268)

- **Week 10 : Programming Assignment 02 (/noc23_cs121/progassignment?name=269)**
- Week 10 : Programming Assignment 03 (/noc23_cs121/progassignment?name=270)
- Week 10 : Programming Assignment 04 (/noc23_cs121/progassignment?name=271)
- Feedback Form of Week 10 (unit?unit=93&lesson=272)

Week 11 ()

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