

# NUMERICAL METHODS IN CHEMICAL

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### Instructions for Code 4a and 4b

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#### Instructions for Code 4a and 4b

by Abhiprai Misra - Tuesday, 7 August 2018, 8:24 PM

Please strictly adhere to the below-given format

#### Input Format

Input would be taken from a file named input.txt.

1. First line of the file would contain a single integer specifying the number of test cases.
2. Second line would contain 2 integers m & n with m specifying the number of rows and n specifying the number of columns for the first matrix.
3. This would be followed by m lines with each line containing n real (float) numbers specifying the elements of each row.
4. There would be one line gap after a test case.
5. This would be followed by repeating steps 2-4 for every test case.

#### Example

2

3 3

3 5 9

1 5 6

4 7 1

2 2

1.3 5.2

2.2 4.3

The above example has 2 test case with first matrix having dimensions of 3x3 with the elements :

3 5 9

1 5 6

4 7 1

The second matrix has dimensions 2x2 with the elements:

1.3 5.2

2.2 4.3

### **Output Format**

Output should be generated by your program in a file named output.txt

1. Output should contain the determinant value of every test case in separate lines.
2. The output of every test case should contain exactly 2 decimals. In case the output contains more than 2 decimals, it should be truncated(not rounded) uptill only 2 decimal points.

### **Example 1 Output**

113.00

### **Example 2 Output**

-5.85

### **Output.txt**

113.00

-5.85

### **Submission Instructions:**

1. Submit two separate files named code4a.cpp/code4a.py/code4a.c and code4b.cpp/code4b.py/code4b.c or any extension file you are using. **No zip file submissions are acceptable.**
2. In case of an invalid test case, print a suitable error message in the output line of the wrong test case in the output file.

### **Other Instructions:**

1. Evaluation would be fully automated with the help of scripts made by TA's. Hence you are requested to follow the format instructions very carefully.

2. Plagiarism would be taken very strictly. Everyone is requested not to share codes with each other or copy the code from online sources. Vivas would be taken to test your understanding of the code, we may use software to detect plagiarism.
3. Please post any doubts on this thread.

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