CLL 113
CODE 3

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 integers specifying the elements of each row.
4. Next line would contain 2 integers j & k with j specifying the number of rows and k specifying the number of columns for the second matrix.
5. This would be followed by j lines with each line containing k integers specifying the elements of each row.
6. There would be one line gap after a test case.
7. This would be followed by repeating steps 2-6 for every test case.

Example1

```
1
2 3
4 7 1
3 5 9
3 2
1 5
2 4
9 2
```

The above example has just 1 test case with first matrix having dimensions of 2x3 with the elements :
4 7 1
3 5 9
Second matrix has dimensions 3x2 with the elements:
1 5
2 4
9 2

Example 2

2
1 3
2 9 1
3 2
4 6
6 1
9 2

2 3
5 1 3
9 2 1
3 4
3 6 1 5
5 1 0 9
1 0 2 4

The above example has 2 test cases. In 1st test case the two matrices have dimensions of 1x3 and 3x2 respectively. In 2nd test case the two matrices have dimensions of 2x3 and 3x4 respectively.

Output Format

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

1. Output of multiplication of two matrices with dimensions mxn and nxp should be a matrix with dimensions mxp. Print m rows with each row containing p integers.
2. The results of each test case should be separated by a line.

Example 1 Output

27 50
94 53

Example 2 Output

71 23

23 31 11 46
38 56 11 67

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 code from online sources. Vivas would be taken to test your understanding of the code and if required we may use softwares to detect plagiarism.
3. For any doubts related to this assignment please contact
   Groups 1&3 - Milan: roymilaniitd@gmail.com
   Groups 2&4 - Niladri: niladrisekharmandal@gmail.com