Practice Set: Two-dimensional Array (3 problems) –v202

<table>
<tr><th>SL</th><th>Problem statement</th><th>Difficulty levels</th></tr>
<tr><td>1.</td><td>WAP that will take (m x n) integer inputs into a matrix of dimension m x n. Now just simply add all the integers in that matrix and show the result.

<table>
<tr><th>Sample input</th><th>Sample output</th></tr>
<tr><td>3 3
1 7 3
7 4 5
3 5 6</td><td>41</td></tr>
<tr><td>2 6
2 2 2 2 2 2
6 5 4 3 2 1</td><td>33</td></tr>
</table></td><td>*</td></tr>
<tr><td>2.</td><td>WAP that will take (n x n) integer inputs into a square matrix of dimension n. Now determine whether the matrix is symmetric or not.
Reference: http://en.wikipedia.org/wiki/Symmetric_matrix

<table>
<tr><th>Sample input</th><th>Sample output</th></tr>
<tr><td>3
1 7 3
7 4 5
3 5 6</td><td>Yes</td></tr>
<tr><td>2
1 3
4 2</td><td>No</td></tr>
</table></td><td>**</td></tr>
</table>

3.	Write a program that takes as input two $m \times n$ matrices, and calculates their summation.	**

Sample input	**Sample output**
3 4 1 2 3 4 4 5 6 7 7 8 9 10 1 1 1 1 2 2 2 2 3 3 3 3	2 3 4 5 6 7 8 9 10 11 12 13