Reality Check: Week 8

Word Problem (Question #1)

View the following C++ programming code, complete the program and generate its output:

Write a user function named Lower_half() which takes a two dimensional array Ary2D, with size N rows and N columns as argument and prints the lower half of the array.

```
For Example: if Ary2D is =
                     The output will be:
2
      1
         5
            0
  7
2
0
                              0
            5
                              1
3
   4
      9
        1
                           9
                                 5
```

Hint: Sample Code

Word Problem (Question #2)

Complete the C++ programming code and generate its output:

Write a function int ALTERSUM (int B[][5], int N, int M) in C++ to find and return the sum of elements from all alternate elements of a two-dimensional array starting from B[0][0].

Word Problem (Question #3)

Complete the C++ programming code and generate its output:

Write a function in C++ which accepts a 2D array of integers and its size as arguments and displays the elements which lie on diagonals.

Hint: Sample Code

Word Problem (Question #4)

Complete the C++ programming code and generate its output:

Write a function in C++ which accepts a 2D array of integers and its size as arguments and displays the elements of middle row and the elements of middle column.

Hint: Sample Code

```
const int S = 5;
void DisplayMidle( int A[S][S], int S)
{    int mid = S/2;
    int i;
    cout << " \n Middle row";
    for (i=0; i<S; i++)
        cout << A[ mid ][ i ]<< " ";
        cout<< " \n Middle Column ";
    for (i = 0; i<S; i++)
        cout<<A[i][ mid ]<< " "
    cout << endl;
}</pre>
```