## COEN 11 - Practice III

1. Write a function to initialize global 2D array x (size MxM) with the pattern below. The function is declared as: void init (void);

0	1	0	1	0	1	0
1	0	1	0	1	0	1
0	1	0	1	0	1	0
1	0	1	0	1	0	1
0	1	0	1	0	1	0
1	0	1	0	1	0	1
0	1	0	1	0	1	0

- 2. Write a void function to traverse an array of structures, in which one member is an integer x and the other is a union u. The members in the union are one integer y and one string s. When x is 1, y is valid, but when x is 0, s is valid. Your function should traverse the array counting the number of elements y between 10 and 100 and the numbers of elements y that are either less than 10 or more than 100. Use an index to traverse the array. The counters are global variables.
- 3. Write an int function to traverse the same array of structures above and return the number of strings in the array with a size greater than SIZE. Use a pointer.
- 4. Write a void function to output all the elements in the array above. Write one version of the function with an index and one with a pointer.