Programming in C Practical Exercises

Your code must:

- 1)Create a square matrix (i.e. n x n) of integers
- 2)Set to 1 the positions in the diagonal of the matrix and 0 otherwise
- 3)Print the whole matrix

Your code must:

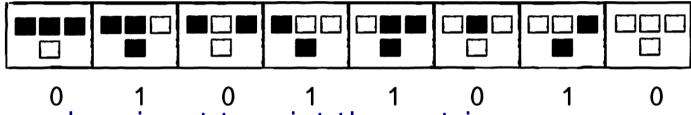
- 1)Create **two** square matrices (i.e. n x n) of integers, A and B
- 2)Set all positions of A with 1s and all positions of B with 2s
- 3)Create another matrix C=A+B
- 4)Print the matrix C

Your code must:

- 1)Create a square matrix (i.e. n x n) of integers.
- 2)Set the first column and first row of the matrix with 1s
- 3)Update the remaining positions of the matrix with the sum of the values of its neighbors
- 4)Print the matrix

Your code must:

- 1)Create a square matrix (i.e. n x n) of integers.
- 2)In the first row, set **only** the middle position with 1, and the rest with 0
- 3)Update the remaining rows of the matrix with the following rule (black = 1, white = 0)



Use this code snippet to print the matrix

```
for(i = 0; i < n; i++){
    for(j = 0; j < n; j++){
        if(h_matrix[i][j] == 1)
            printf("\u2610");
        else
            printf("\u25A0");
    }
    printf("\n");
}</pre>
```