

You are given an integer N, create a 2D array named 'grid' of size N x N.

- The diagonal of the grid should be filled with 0.
- The lower side should be filled with -1s.
- The upper side should be filled with 1s.

Code:

```
#include <iostream>

#include <vector>

using namespace std;

int main() {

    int N;

    cin >> N;

    vector<vector<int>>> grid(N, vector<int>(N));

    for (int i = 0; i < N; i++) {

        for (int j = 0; j < N; j++) {

            if (i == j) {

                grid[i][j] = 0;

            } else if (i > j) {

                grid[i][j] = -1;

            } else {

                grid[i][j] = 1;

            }

        }

    }

    for (int i = 0; i < N; i++) {
```

```
    for (int j = 0; j < N; j++) {  
        cout << grid[i][j] << " ";  
    }  
    cout << endl;  
}  
return 0;  
}
```