

Program:

```
#include <bits/stdc++.h>
using namespace std;

int main()
{
    int numCells, numChannels;
    cout << "Enter number of cells in the network: ";
    cin >> numCells;

    cout << "Enter number of available channels in each cell: ";
    cin >> numChannels;

    int cells[numCells][numChannels];

    for (int i = 0; i < numCells; i++)
    {
        for (int j = 0; j < numChannels; j++)
        {
            cells[i][j] = (i + j) % numChannels;
        }
    }

    for (int i = 0; i < numCells; i++)
    {
        cout << "\nCell " << i + 1 << ": ";
        for (int j = 0; j < numChannels; j++)
            cout << cells[i][j] << ", ";
    }

    return 0;
}
```

Output:

```
PS C:\Users\Idris\Documents\College works\MCC> cd "c:\Users\Idris\Documents\College works\MCC\"
pt8.cpp -o Expt8 } ; if ($?) { .\Expt8 }
Enter number of cells in the network: 9
Enter number of available channels in each cell: 7

Cell 1: 0, 1, 2, 3, 4, 5, 6,
Cell 2: 1, 2, 3, 4, 5, 6, 0,
Cell 3: 2, 3, 4, 5, 6, 0, 1,
Cell 4: 3, 4, 5, 6, 0, 1, 2,
Cell 5: 4, 5, 6, 0, 1, 2, 3,
Cell 6: 5, 6, 0, 1, 2, 3, 4,
Cell 7: 6, 0, 1, 2, 3, 4, 5,
Cell 8: 0, 1, 2, 3, 4, 5, 6,
Cell 9: 1, 2, 3, 4, 5, 6, 0,
PS C:\Users\Idris\Documents\College works\MCC> █
```