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// Attached: HW 2(c)
// File: HW_2c.pdf
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//
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//
//
// Program: Display 2d array
//
// Description:
// Program allows you to fill a 2d array with numbers, then displays the array.
```

```
#include <iomanip>
#include <iostream>
```

```
// function prototypes
void getData(int numArray[][4]);
void displayArray(int numArray[][4]);
```

```
int main() {
```

```
    int numArray[3][4];
    getData(numArray);
    displayArray(numArray);
```

```
    return 0;
} // end of main
```

```
// function getData fills the array with user inputted numbers
// Inputs: the array numArray, and user input for every slot in the array
```

```
void getData(int numArray[][4]) {
    for (int i = 0; i < 3; i++) {
        for (int j = 0; j < 4; j++) {
            std::cout << "Enter a number. " << "\n";
            std::cin >> numArray[i][j];
        }
    }
} // end of getData
```

```
// function displayArray prints out the data in the 2d array to the console.
// Inputs: filled numArray with values
```

```
void displayArray(int numArray[][4]) {
    std::cout << "here is the data in the 2d array" << "\n";
    for (int i = 0; i < 3; i++) {
        std::cout << "\n";
        for (int j = 0; j < 4; j++) {
            std::cout << std::setw(4) << numArray[i][j] << " ";
        }
    }
    std::cout << "\n";
} // end of displayArray
```