

Java → Basic syntax and simple programs → Arrays

# Multi-dimensional array → Sum of neighbors

429 users solved this problem. Latest completion was about 3 hours ago.

Hard 20 minutes

Code Challenge — Write a program

Wow! This problem is kind of tricky. If you're ready to put your thinking cap on, brace yourself and good luck! Otherwise, you can skip it by now and return any time later

Write a program, which inputs the rectangular matrix from a sequence of lines, ending with a line, containing the only word "end" (without the quotation marks).

The program should output the matrix of the same size, where each element in the position (i, j) is equal to the sum of the elements from the first matrix on the positions (i-1, j) (i+1, j) (i, j-1) , (i, j+1) . Boundary elements have neighbors on the opposite side of the matrix. In the case of one row or column, the element itself may be its neighbor.

Sample Input 1:

```
9 5 3
0 7 -1
-5 2 9
end
```

Sample Output 1:

```
3 21 22
10 6 19
20 16 -1
```

Sample Input 2:

```
1
end
```

Sample Output 2:

```
4
```

Code Editor IDE

- ✓ IDE is responding IntelliJ IDEA 2020.1
- ✓ EduTools plugin is responding 3.6-2020.1-4714

Solve in IDE

Continue

View solutions (40)

Time limit: 5 seconds Memory limit: 256 MB

Comments (28) Hints (4) Useful links (0) Solutions (40)



Share something, Sergey Kubatko

Post