

## OLI Assignment 13 Due Tuesday 12/7 by 9:00pm

As you read the following OLI pages and complete the interactive activities, capture the screenshots of the completed activities and replace the respective screenshots in the document.

- Page 49 2D arrays

When you are ready to submit the assignment, download the document in PDF and submit the PDF file on Cougar Course as the proof for your work.

### Page 49 2D arrays

#### LBD access array elements via indices

What value is stored in `candies[1][2]`?

✓ Correct, this identifies the cell in row 1 and column 2.

Enter the column index to make the following return "jelly"

`candies[3][`  `]`

✓ Correct! `candies[3][3]` holds "jelly".

Enter the row index to make the following return "wrapped"

`candies[`  `][3]`

✓ Correct! `candies[4][3]` holds "wrapped".

## LBD across one row

In order to find out the total ratings for a given dish, we should fix the row index and iterate through the column indices.

✓ Correct, each row holds the reviews of one dish.

✓ Correct, when we iterate through the column indices for a fixed row, we will go through the reviews of all critics for one dish.

Which of the following would find the total rating for the first dish?



```
int total_rating = 0;
int r = 0;
for (int c = 0; c < CRITICS; c++) {
    total_rating += reviews[r][c];
}
```



```
int total_rating = 0;
int c = 0;
for (int r = 0; r < DISHES; r++) {
    total_rating += reviews[r][c];
}
```

✓ Correct; this would find the total ratings from the four critics on the first dish.

## LBD down one column

In order to find out the lowest ratings given by a critic, we should fix the **column** index and iterate through the **row** indices.

✓ Correct, each column holds the reviews of one critic.

✓ Correct, when we fix the column and iterate through the row indices, we will go through the reviews of the same critics on different dishes.

Which of the following would find the lowest rating assigned by the second critic?



```
int lowest_rating = 15;
int c = 1;
for (int r = 0; r < DISHES; r++) {
    if (lowest_rating > reviews[r][c]) {
        lowest_rating = reviews[r][c];
    }
}
```



```
int lowest_rating = 15;
int r = 1;
for (int c = 0; c < CRITICS; c++) {
    if (lowest_rating > reviews[r][c]) {
        lowest_rating = reviews[r][c];
    }
}
```

✓ Correct; this would find the lowest rating that was given out by the second critic.

What questions or tips for others do you have regarding analyzing elements on one row or one column?

None.

Resubmit

✓ Thanks for sharing.