Make a copy of this Google Doc template and save the copy in your Google Drive.

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 47 Array of struct objects

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 47 Arrays of struct objects

Hotspot access struct objects via []

```
Given the following content of the "songs.txt" file.
      1, Someone You Loved, Lewis Capaldi, 3
      2, Truth Hurts, Lizzo, 1
      3, Senorita, Shawn Mendes & Camila Cabello, 2
How many times will the collect_one_song function be invoked by the above program?
 ✓ Correct! The input file has 3 lines and the program repeats the loop body three times.
What is the value of num_songs before the collect_one_song is called for the first time?

✓ Correct! The program initializes num_songs to o before the loop.

What is the value of num_songs after the collect_one_song is called for the first time?
 Correct! the program increases num_song from o to 1 after the first call.
What is the value of num_songs when the while loop is completed? 3
    Correct! The loop body is repeated three times and num_song++ is executed three times, going
   from 0 to 1, 1 to 2, and 2 to 3.
The print_one_song function was defined display one song object.
      void print_one_song(Song s) {
  cout << s.titile << " by " << s.artists << " was ranked ";
  cout << s.ranking_last_week << " last week. It is now ranked ";
  cout << s.ranking_this_week << " this week.n";</pre>
The following loop is set up to display all of the Song objects we have collected into top hits.
      for (int i = 0; i < num_songs; i++) {
        print_one_song(____
What should we use to replace _____?
O s
top_hits[i]
top_hits
top_hits[num_songs]
 Correct; this specify which element of top_hits we want to display.
```

LBD access data members of struct objects

Which of the following access the title of the second Song object in top_hits ?
o top_hits.title[1]
• top_hits[1].title
o top_hits.title
Correct; top_hits[1] refers to the second Song object. top_hits[1].title refers to the title of the second Song object.
In the following space, write the code to display last week's ranking for the 3rd Song object in top_hits.
top_hits[2].ranking_last_week
Resubmit
✓ top_hits[2].ranking_last_week

MR potential applications

What analyses would you feel comfortable perform on an array of Song objects?

