COP 3503 Fall 2026 Section 201 Program 6 Directions

This program is testing the use Traveling Salesman Dynamic Programming Algorithm. Perhaps the hardest part of the program is figuring out "where" the traveling salesman is supposed to go and how it pertains to the problem. Once that is conceptually understood, it should be fairly straight-forward to map the problem given to the classical problem shown in class.

This program is shorter than most of the previous programs, but still try to have reasonable design with multiple methods. No objects are required for this one, though you may use one if you'd like.

You will still be graded on standard style issues as well as commenting. Your program should have a header comment as well as a reasonable amount of internal comments. In addition, do strive to use reasonable variable names, but it's likely we'll be somewhat lenient on this particular issue.

Please read your input from standard input. Do NOT prompt the user to enter anything.

Please provide your output to standard output.

Your program will process one file with many test cases. You will get credit only for the test cases that complete within the given time limit (15 seconds) which also produce a correct answer.

Deliverables

1. Please submit your source file and call it **youwin.java.** (Note: Webcourses automatically adds version numbers to the end of your files if your resubmit. Don't worry about this. The grader will fix it.)

2. Please submit a short write up discussing your development of the program, any interesting observations you made while working on the program, any hurdles you faced and how you overcame those hurdles. This should be submitted in a file called **P6-commentary.pdf**.