cs473 Algorithms	
	Problem Set #2
Prof. Michael A. Forbes	Due: *Wed., 2026-02-18 10:00*

Some reminders about logistics. See the course webpage for full details.

- **Submission Policy:** Submit psets via gradescope. Student psets must obey the following constraints:
  - Each problem starts on its own page.
  - The first page has the following metadata:
    * author(s) of the problem set
      · name(s)
      · netid(s)
    * pset number
    * list of collaborators

- **Collaboration Policy:** Starting with *this* problem set, students are allowed to work in groups of up to three.

- **Late Policy:** Late psets are not accepted. Instead, several lowest-scoring pset problems will be dropped from a students score.

All problems are of equal value.

1. Maximizing over parenthesization. Erickson Chapter 3, Problem #33 (https://jeffe.cs.illinois.edu/teaching/algorithms/book/03-dynprog.pdf).

2. Awkwardness. Erickson Chapter 3, Problem #48 (https://jeffe.cs.illinois.edu/teaching/algorithms/book/03-dynprog.pdf).

3. Counting shortest paths. Kleinberg-Tardos Chapter 6, Problem #22.

   For full credit, your solution must also analyze the space complexity of the algorithm.