INSTRUCTIONS

- You have 10 minutes to complete this quiz.
- The exam is closed book, closed notes, closed computer, closed calculator.
- This redemption quiz is worth 3 midterm points and the final score will be assigned based on effort.
- Mark your answers on the exam itself. We will not grade answers written on scratch paper.
- For multiple choice questions,
  - ☐ means mark all options that apply
  - ☐ means mark a single choice

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<td>Teaching Assistant</td>
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All the work on this exam is my own. (please sign)
1. (5 points) **Bisicle** (It’s a two-pronged popsicle, so you can eat it twice.)

Implement `unreplicate_link`, which takes a replicated or empty linked list of integers `s` and returns a new linked list where each integer `n` only appears once for each of `n` replicated copies.

```python
def unreplicate_link(s):
    """Given a replicated or empty linked list of integers s, return a new linked list where each element, n, of the linked list s appears once instead of n times."
    >>> print_link(unreplicate_link(empty))  
    # handle the empty linked list
    >>> l = replicate_link(link(4, link(1, link(5))))  
    # show input linked list
    >>> print_link(l)
    4 4 4 1 5 5 5 5
    >>> print_link(unreplicate_link(l))
    4 1 5
    >>> l = link(2, link(2, link(2, link(2, link(2, link(2, link(1)))))))
    # show input linked list
    >>> print_link(l)
    2 2 2 2 2 1
    >>> print_link(unreplicate_link(l))  
    # unreplicated linked list
    2 2 2 1
    """

    def unreplicate(________________________):
        if __________________________________________________________________________:
            return _____________________________________________________________________________
        elif ________________________________________________________________________:
            return _____________________________________________________________________________
            return _________________________________________________________________________________
            return _____________________________________________________________________
```

2. (0 points) **The power to reshape the world... The ability to "SAVE."**

In this extra credit problem, you may choose one of two options.

- Mark the choice to “Go alone” and write a positive integer in the blank below. The one student who writes the smallest, unique positive integer will receive one-point-five (1.5) extra credit points but only if fewer than 90% of students choose the next option.
- Mark the choice to “Cooperate”. If at least 90% of students choose this option, all students who chose this option will receive one (1) extra credit point and those who marked the choice to “Go alone” will receive zero (0) extra credit points.

Will you go alone? Or will you cooperate? It is up to you.

- [ ] Go alone ________
- [ ] Cooperate