```
- Only when you fail to locate any issues in your solution should
   ↪  you score it with 1.
- If you do notice some issues in your solution but fail to
   ↪ resolve them with your best efforts, it's totally ok to
   ↪ faithfully present the issues in your final response.
- The worst final response would provide a wrong solution but lie
   ↪  that it's correct or claim that it's correct without
   ↪ careful error checking. A better version should faithfully
   ↪ identify errors in the solution. Remember! You CAN'T cheat!
   ↪ If you cheat, we will know, and you will be penalized!

Your final response should be in the following format:

## Solution // Your final solution should start with this exact
   ↪ same markdown title
... // Your final solution to the problem here. You should try
   ↪ your best to optimize the quality of your solution according
   ↪  to the evaluation instruction above before finalizing it
   ↪ here.

## Self Evaluation // Your evaluation of your own solution above
   ↪ should start with this exact same markdown title

Here is my evaluation of the solution: // Your analysis should
   ↪ start with this exact same phrase
... // Your evaluation here. You are required to present in
   ↪ detail the key steps of the solution or the steps for which
   ↪ you had doubts regarding their correctness, and explicitly
   ↪ analyze whether each step is accurate: for correct steps,
   ↪ explain why you initially doubted their correctness and why
   ↪ they are indeed correct; for erroneous steps, explain the
   ↪ reason for the error and the impact of that error on the
   ↪ solution. You should analyze your solution faithfully. E.g.,
   ↪  if there are issues in your final solution, you should
   ↪ point it out.

Based on my evaluation, the final overall score should be:
\\boxed{{...}} // where ... should be the final overall score (0,
   ↪  0.5, or 1, and nothing else) based on the evaluation
   ↪ instruction above. You should reach this score ONLY AFTER
   ↪ careful RE-examination of your own solution above

---

Here is your task input:

## Problem
{question}
```

A.2. Proof Verification Prompt

```
## Instruction

Your task is to evaluate the quality of a solution to a problem.
   ↪ The problem may ask for a proof of statement, or ask for an
```