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AI-generated content may be incorrect.

Module 03: Discussion 03 - What is the difference between greedy and brute force algorithms?

Complete a Leetcode problem and discuss how it went. Share a screenshot of its completed form and the acceptance notice.

OR ANSWER THE FOLLOWING:

What is the difference between greedy and brute force algorithms?

* Are there algorithms that can be at the same time brute force and greedy?
  + No, this is not possible. You could say their methods are opposed to each other. While brute force algorithms go through every single element, Greedy algorithms, as the name suggests, work only on a portion of the problem at a time.
* A skilled programmer is more likely to use brute force or greedy algorithms? (and most important: Why?)
  + When we look at the importance of time and space complexity, it makes sense for a skilled programmer to use a greedy algorithm. It's much faster, easier to implement, and in most cases, it delivers a good enough solution
* Between greedy and brute force algorithms, which ones are most likely to use recursion?
  + Brute force is better suited for recursion, due to the fact that it has to touch every element in the problem. Where greedy algorithms usually use a loop that makes a decision during the iterative process, then moves on to the next step.