Assignment 9

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HANDIN:

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Problem I

- 1) Transformation of instances:
 - The reduction should transform B into an instance of A in such a way that the Solution to the instance of A provides a Solution to the original instance of B.
- 2) Preservation of complexity.

 The reduction must had efficiency (o(n2) or Bettor)

 So it does not increase the complexity of

 Solving B through A.
- 3) Implication: This reduction implies that if A could be solved faster than 2(n²), then B could too which is a contradiction. Therefore, A has lower bound of 2(n²).