

P and NP

The goal of the presentation is to discuss the difference between polynomial and non-deterministic polynomial time computer programs. The following articles are a good starting point.

- http://en.wikipedia.org/wiki/Polynomial_time
- http://en.wikipedia.org/wiki/NP_%28complexity%29
- http://en.wikipedia.org/wiki/Complexity_classes_P_and_NP

Your presentation should include

- A discussion of what a polynomial time (P) computer program is.
- A discussion of what a non-deterministic polynomial time (NP) computer program is.
- An explanation of how primes can be factored using a non-deterministic polynomial time computer program.
- A discussion of what it means for two classes of programs (like P, NP) to be the same. And the statement that it isn't known if they are the same class.

In addition your presentation should include at least one of

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You should also feel free to expand on the above in any directions you would like (so long as they are related to the topic). If you have any questions regarding the presentation feel free to e-mail your TA or Dr. Ackerman