**RECITATION 10/18/2019**

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**Homework Directions:**

Make a reasonable attempt at implementing all empty methods in the "KaratsubaMultiplication.java" file. You may use the live code written in recitation (no guarantee that it is correct). Please also note that the file has additional restrictions on the behavior of the program. If you get stuck, please comment inline how you are stuck and what solving it would accomplish. If you worked with anyone, please comment at the top of the file who you worked with.

**Build all: full credit**

**Build only base 10: half credit**

**Build partially, cannot compile, late submission: 0 credit**

**Writing Section Additional Directions:**

Please write at least one paragraph response to the following:

"Please explain in more detail why Karatsuba's Multiplication Algorithm is more efficient than direct multiplication, when it seems like instead of performing one multiplication, you must perform three (and several additions and subtractions)."

Please include at least one cited source from a reputable place (no Wikipedia, etc.).

**Submission Directions:**

Please submit all files into a zip file with the following name

"<LastName>\_<pittUsername>\_Recitation1018.zip"

**to gradescope by Oct 25 1pm**.

Late submissions will not be accepted.