Week 7 Tuesday

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Dead Languages

Make sure you know your neighbors' names, and then discuss:

Have you ever studied a dead language? If so, which one, and why did you study it? If you haven't, and you had to choose a dead language to study, which one would you choose, and why?

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Binary Exponentiation, Primality Testing

1. For which of the following integers m will we need to perform the greatest number of multiplications mod 100 if we want to compute 3^m mod 100 using binary exponentiation?

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(A)	<i>m</i> = 29
(B)	<i>m</i> = 30
(C)	m = 31
(D)	<i>m</i> = 32

2. Find the binary representation of 143.

3. Compute 7¹⁴³ mod 10.

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