# Some Solutions to HW04 Problems

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# BILL, RECORD LECTURE!!!!

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Write programs for EXP TESTPRIME TESTSAFEPRIME HOWMANYSAFEPRIMES.

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 PROJECT IDEA how common is this?

a) Run HOWMANYSAFEPRIME on 10000, 20000, ..., 90000. Find prop of safe primes in  $\{1, ..., 10000\}, ..., \{1, ..., 90000\}$ .

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**Math Conj** Numb of safe primes  $\leq n$  is  $\frac{cn}{\ln n} + O(1)$ . Implies:

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**PROJECT IDEA** Estimate c.

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However, your data should lead you to:

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