

CMSC 652 HW 5-WRITTEN Due March 4

50 points

1. Find a function $T(n)$ such that, $\Sigma_2 \subseteq DTIME(T(n))$.
2. Find a function $S(n)$ such that, $\Sigma_2 \subseteq DSPACE(S(n))$.
3. THINK ABOUT (not to hand in) What about Σ_3 ? Σ_4 ? Etc.

CMSC 652 HW 5-ORAL Due March 6

50 points

Show that PRIMES is in NP. (NOTE- it is known that PRIMES is in P but this is a hard proof and not what I want. The result that PRIMES is in P is due to Von Pratt and is easily found on the web.)

Th 10-11: Jesse M, Emily H, Yi Q,

Th 11:00-12:00 Casey M, Leo F, Hoseein E.

Th 3:30-4:30 Bahadir O, Ahmed A, Ilse H

(IF you want to switch around you can, but I am meeting SOME three students 10-11, SOME three students 11-12, and SOME three students 3:30-4:30.)