

Mid Term Test2 Topics CS220

Sets and Tuples

Definitions, operations

Sequences

recurrences

Definitions, geometric Series, arithmetic series

Induction

Linear induction

Strong Induction

Structural Induction

Loop invariants

Counting

Product rule, sum rule

Permutations, combinations

Inclusion / exclusion

k to 1 rule, bijection rule

Pigeonhole principle

Permutations / Combinations

Complement rule

Inclusion / Exclusion