

TND004 Lab 1 Exercise 2

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Set<int> S1(S2)

Copy constructor loops through S2 once ->

$T(n) = O(n)$

Set(1) = Set(2)

Assignment operator is based on a swap of the heads and tails. No looping!

$T(n) = O(1)$ -> constant time!

S.cardinality();

Only one check up. No looping.

$T(n) = O(1)$ -> constant time

S1+S2

$T(n) = O(m+n) = O(n)$

k+S

$T(n) = O(n)$