# 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)**

Assignement 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)