package com.twitter.follow\_recommendations.common.utils

object CollectionUtil {

/\*\*

\* Transposes a sequence of sequences. As opposed to the Scala collection library version

\* of transpose, the sequences do not have to have the same length.

\*

\* Example:

\* transpose(immutable.Seq(immutable.Seq(1,2,3), immutable.Seq(4,5), immutable.Seq(6,7)))

\* => immutable.Seq(immutable.Seq(1, 4, 6), immutable.Seq(2, 5, 7), immutable.Seq(3))

\*

\* @param seq a sequence of sequences

\* @tparam A the type of elements in the seq

\* @return the transposed sequence of sequences

\*/

def transposeLazy[A](seq: Seq[Seq[A]]): Stream[Seq[A]] =

seq.filter(\_.nonEmpty) match {

case Nil => Stream.empty

case ys => ys.map(\_.head) #:: transposeLazy(ys.map(\_.tail))

}

}