Exercise 2.3-4:

Here we only consider the number of shifts in the procedure.

Best case:

$\because T(1) = 0 \ and \ T(n) = T(n-1) + 1$

$\therefore T(n) = n - 1$

Worst case:

$\because T(1) = 0 \ and \ T(n) = T(n-1) + n - 1$

$\therefore T(n) = 1 + 2 + \cdots + (n-1) = \frac{n(n-1)}{2}$