## Exercise 3:

1.

- (1) *pushback* (*l*, *x*) is just like *append* (*l*, *x*) we studied in class, which extend the sequence of the data structure by one new element;
- (2) pushfront(l, x) can be expressed as the insert(l, 1, x), which add the new element x at the front of the sequence;
- (3) popback (l) can be expressed as get (l, i) and delete (l, i), where i is the length of the sequence returned from length (l). It first gets the last element of the sequence, then deletes it;
- (4) popfront (l) can be expressed as get (l, 1) and delete (l, 1). It first gets the first element of the sequence, then deletes it;