

Q1

①. $O(n^2)$ insert is n , while loop also n , $n \times n = n^2$

②. $O(n)$ ~~when list has n elements~~, append is amortized.

Q3. $O(n)$, append is amortized.

Q4.

a. $O(n^2)$

c. ~~$2n$~~ $2n = O(n)$