```
Algorithm InsertBefore(p, e):
    Create a new node v
    v.\mathsf{setElement}(e)
    v.setPrev(p.getPrev())
                                        \{\text{link } v \text{ to its predecessor}\}
    v.\mathsf{setNext}(p)
                            \{ link \ v \ to \ its \ successor \}
                                          \{\text{link } p\text{'s old predecessor to } v\}
    (p.\mathsf{getPrev}()).\mathsf{setNext}(v)
                            \{\text{link } p \text{ to its new predecessor}, v\}
    p.\mathsf{setPrev}(v)
    numElts++
    return v
                        \{\text{the position for the element }e\}
Algorithm InsertFirst(e):
    Create a new node v
    v.\mathsf{setElement}(e)
    header.getNext().setPrev(v)
    v.setNext(header.getNext())
    header.setNext()v
    numElts++
    return v
Algorithm InsertLast(e):
    Create a new node v
    v.\mathsf{setElement}(e)
    trailer.getPrev().setNext(v)
    v.setPrev(trailer.getPrev())
    trailer.setPrev(v)
    numElts++
    return v
```