```java
class Elem {

        private int value;

        private Elem next;

        public elem (int value) {

                this.value = value;

                this.next = null; }

        public int getValue () {

                return value; }

        public void setValue (int dato) {

                this.value = dato;}

        public Elem getNext () {

                return next; }

        public void setNext (Elem next) {

                this.next = next; }
```

....

```java
public class IntList {

        private Elem list; // texta

        private int length;

        public IntList () {

                this.list = null;

                this.length = 0; }

        public int size () {

                return length;
```

```java
public void addFirst (int x) {

    Elem newElem = new Elem (x);

    newElem.setNext (this.list);

    list = new Elem;

    length ++; }

public int removeFirst () {

    if (list == null) {

        throw new RuntimeException (); }

    int v = list.getValue ();

    this.list = this.list.getNext ();

    length --;

    return v; }

public boolean contains (int elem) {
```

```java
public void addLast (int x) {

public void removeLast () {

public String toString () {
```

```java
public void addFirst (int x) {

    Elem newElem = new Elem (x);
```