```
myLibrary()
```

```
checkPhoneNumber
```

```
myPhoneNumber
```

```
Lots of
Functions
```

```
end, end1,
end2, start,
start1,
start2,
setOne,
setTwo,
setThree
```

```
end myLibrary
```

if(setOne.length
== 3)

Yes

if
(setThree.length
== 4)

Yes

true

No

No

false

false

end
checkPhoneNumber

```
start
checkEmail()                    addy

startAddy,
startComp,
startExten,
symbolAt,
symbolDot,
emailName,
emailComp,
emailExten

if                  if                   if                if(symbolAt        if
(emailName.length  ──Yes──►  (emailComp.length ──Yes──►  (emailExten.length ──Yes──► !== -1)) ──Yes──► (symbolDot ──Yes──►  true
>= 1)                        >=1)                        >= 2)                              !== -1))

  │                           No                          No                   No             No
  No
  │
  ▼
false ◄──────────────────────────────────────────────────────────────
  │
  ▼
end
checkEmail() ◄─────────────────────────────────────────────────────
```

Flowchart: isThisUrl()

```
isThisUrl() ← url string

isThisUrl()
  ↓
[webBeginOne, webBeginTwo]
  ↓
if (webBeginOne === "http://")
  ├─ Yes → true → end isThisUrl
  └─ No
       ↓
     else if (webBeginTwo === "https://")
       ├─ Yes → true → end isThisUrl
       └─ No
            ↓
          false
            ↓
         end isThisUrl
```

Flowchart: titleCase()

```
titleCase() ← quote string

titleCase()
  ↓
[quoteWithTitelCase, quoteString]
  ↓
for(var i=0; i< quoteString.length; i++)
  ↓
[wordList, wordTitelCase, elementQuote]
  ↓
quoteWithTitelCase.join(" ")
  ↓
end titleCase
```

```
start
findReplace()  ◄──  string,
                     symbOne,
                     symbTwo

        │
        ▼
┌──────────────────┐
│ newString,       │
│ newNewString     │
└──────────────────┘
        │
        ▼
┌──────────────────┐
│ string.replace,  │
│ newString.replace│
└──────────────────┘
        │
        ▼
┌──────────────────┐
│ newNewString     │
└──────────────────┘
        │
        ▼
end
findReplace()
```

```
start
changeDecimal  ◄──  amount,
                    decimal

        │
        ▼
┌──────────────────┐
│ amount           │
└──────────────────┘
        │
        ▼
┌──────────────────────┐
│ amount.toFixed(decimla)│
└──────────────────────┘
        │
        ▼
┌──────────────────┐
│ amount           │
└──────────────────┘
        │
        ▼
end
changeDecimal
```

```
start
numberMatch  ◄──  numb1,
                  numb2,
                  numb3

        │
        ▼
    if (numb1
    < numb2)  ──Yes──►  ┌──────────────┐
        │               │ differance,  │
        No              │ percentage   │
        │               └──────────────┘
        │                      │
        │                      ▼
        │                 if (percentage
        │                 <= numb3)  ──Yes──►  ┌─────────┐
        │                      │               │ results │
        │                      No              └─────────┘
        │                      │                    │
        ▼                      ▼                    ▼
  ┌─────────┐  ◄──────────────                   true
  │ results │
  └─────────┘
        │                                          │
        ▼                                          │
    false                                          │
        │                                          │
        ▼                                          ▼
    end  ◄─────────────────────────────────────  numberMatch
    numberMatch
```

Flowchart 1: getYear

start getYear ← `datePast, todaysDate`

↓

elapsedTime,
millisecondsPerYear,
thisYear,
years

↓

math. adding
and dividing,
thisyear.toFixed(2)

↓

years

↓

display
years

↓

end getYear

Flowchart 2: getDays

start getDays ← `futureDate, currentDate`

↓

elapsedTime,
millisecondsPerDay,
daysToNewJob,
futureDays

↓

math. adding
and dividing,
Math.ceil(daysToNewJob)

↓

futureDays

↓

display
futureDays

↓

end getDays

Flowchart 3: evalString()

evalString() ← `stringFour`

↓

if
(isNan(stringFour)
===false

— Yes → number =
"This is not a
number. Try
again."

No ↓

number → eval(stringFour)

↓

number

↓

display
number

↓

**end
EvalString()**