

List Contains

This is a **warmup** exercise. It is **not compulsory**, and may be completed **individually or with your lab partner**.

For this activity, you will be looking at a linked list.

Download `list.h`, or copy it into your current directory on a CSE system by running

```
$ cp /web/cs1511/17s2/week11/files/list.h .
```

Make sure you understand the `list` and `node` data structures before beginning this task.

Create a file called `listContains.c` that includes the `list.h` header file. In it, you should implement `listContains`, a function which takes a linked list and returns `TRUE` if `val` exists in the list, `FALSE` otherwise. It should have this prototype:

```
int listContains (List l, int val);
```

You should write your own tests in a separate file; `listContains.c` should *not* contain a `main`.

To run some simple automated tests:

```
$ 1511 autotest listContains
```

To run Styl-o-matic:

```
$ 1511 stylomatic listContains.c
Looks good!
```

You'll get advice if you need to make changes to your code.

Submit your work with the `give` command, like so:

```
$ give cs1511 wk11_listContains
```

Or, if you are working from home, upload the relevant file(s) to the `wk11_listContains` activity on [Give Online](#).