

Lab Test 1 - (2) Lists

Allocated Time - 20 mins

Submit your solution in an R file.

Load the following list into your R file.

```
l <- list(a=1:10,  
          b=rep(c(T,F),5),  
          c=list(d=2:4,  
                 e="Hello"))
```

Using, where appropriate, the `[` and `[[` operators, to generate the following variables

From the list `l`, generate a list of the first two elements, stored in `l1`

```
str(l1)
```

```
## List of 2
```

```
## $ a: int [1:10] 1 2 3 4 5 6 7 8 9 10
```

```
## $ b: logi [1:10] TRUE FALSE TRUE FALSE TRUE FALSE ...
```

From the list `l`, create the vector `v1` which contains the contents of list element 2.

```
v1
```

```
## [1] TRUE FALSE TRUE FALSE TRUE FALSE TRUE FALSE TRUE FALSE
```

From the list `l`, create the vector `v2` which contains the contents of the list element `e`, contained in the list element `c`. Use the element name approach, in conjunction with the `[[` operator.

```
v2
```

```
## [1] "Hello"
```

Using the LETTERS constant, rename the elements of the list to A, B and C.

```
str(l)
```

```
## List of 3
```

```
## $ A: int [1:10] 1 2 3 4 5 6 7 8 9 10
```

```
## $ B: logi [1:10] TRUE FALSE TRUE FALSE TRUE FALSE ...
```

```
## $ C:List of 2
```

```
## ..$ d: int [1:3] 2 3 4
```

```
## ..$ e: chr "Hello"
```