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Practical 2
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Jumping Rivers

$Question\ 1$

Consider the following simple function

```
v = 5
Fun1 = function() {
    v = 0
    return(v)
}
Fun1()
```

- 1. Why does the final line return 0 and not 5.
- 2. Delete line 3 in the above piece of code. Now change Fun1() to allow v to be passed as an argument, i.e. we can write Fun1(5). Call this function to make sure it works.

```
Question\ 2
Fun2 = function(x = 10) {
    return(x)
}
Fun3 = function(x) {
    return(x)
}
1. Why does
  Fun2()
  work, but this raises an error
  Fun3()
2. Change Fun2 so that it returns x*x.
Question 3
a = 2
total = 0
for (blob in a:5) {
```

total = total + blob

}

- 1. In the code above, delete line 1. Now put the above code in a function called Fun5, where a is passed as an argument, i.e. we can call Fun5(1)
- 2. Alter the code so that the for loop goes from a to b, rather than a to 5. Allow b to be passed as an argument, i.e. we can call Fun5(1,5).
- 3. Change Fun5 so that it has default arguments of a=1 and b=10.

Solutions

Solutions are contained within this package:

```
vignette("solutions2", package = "jrProgramming")
```