

```
#####
# write a function that takes a numeric vector
# as an input, and returns a vector until it reads 0.
# if there is no 0 in the vector, it should return an empty vector.

# if vec is c(1,2,3,1,0,8,7,4)
# the result should be: c(1,2,3,1)

# if vec is c(1,2,3,4)
# the result should be: c()

get.message <- function(vec) {
  i <- 1
  is.zero.found <- F
  message <- c()
  while (i <= length(vec))
  {
    if (vec[i] != 0) {
      message <- c(message, vec[i])
    } else {
      is.zero.found <- T
      break
    }

    i <- i + 1
  }

  if(!is.zero.found){
    message <- c()
  }

  return(message)
}

# test cases: start with 0, end with 0, array with 0, array without 0

#####
# write a function that takes three inputs:
# a numeric vector: vec
# a number: number1
# a number: number2

# all the occurrences of number1 should be replaced by
# number2 in vec

# if vec is c(1,2,3,2)
# number1 is 2
# number2 is 5
# the resulting vector should be: c(1,5,3,5)

# if vec is c(-1,2,3,-2)
# number1 is 10
# number2 is 1
# the resulting vector should be: c(-1,2,3,-2)

replace.numbers <- function(vec, number1, number2) {
  result <- c()
  for (no in vec) {
    if (no == number1) {
      result <- c(result, number2)
    } else {
      result <- c(result, no)
    }
  }

  return(result)
}
```

```
##coding2-resp.R

#####
# write a function that takes a numeric vector
# as an input, and returns a vector until it reads -1.
# if there is no -1 in the vector, it should return an empty vector.

# if vec is c(5,3,3,1,-1,8,7,4)
# the result should be: c(5,3,3,1)

# if vec is c(1,2,3,4)
# the result should be: c()

get.message <- function(vec) {
  i <- 1
  is.zero.found <- F
  message <- c()
  while (i <= length(vec))
  {
    if (vec[i] != -1) {
      message <- c(message, vec[i])
    } else {
      is.zero.found <- T
      break
    }

    i <- i + 1
  }

  if(!is.zero.found){
    message <- c()
  }

  return(message)
}

# test cases: start with -1, end with -1, array with -1, array without -1

#####
# write a function that takes three inputs:
# a numeric vector: vec
# a number: number1
# a number: number2

# all the occurrences of number2 should be replaced by
# number1 in vec

# if vec is c(1,2,3,2)
# number1 is 5
# number2 is 2
# the resulting vector should be: c(1,5,3,5)

# if vec is c(-1,2,3,2)
# number1 is 1
# number2 is 10
# the resulting vector should be: c(-1,2,3,2)

replace.numbers <- function(vec, number1, number2) {
  result <- c()
  for (no in vec) {
    if (no == number2) {
      result <- c(result, number1)
    } else {
      result <- c(result, no)
    }
  }

  return(result)
}
```