

SWINBURNE UNIVERSITY OF TECHNOLOGY

2021 SEM 1 INTRODUCTION TO PROGRAMMING

DOUBTFIRE SUBMISSION

Fix-it

Submitted By:

Hong Que VO

102240620

2021/05/06 21:03

Tutor:

Tuan Dung LAI

May 6, 2021



```
1 def write(aFile, number)
2   # You might need to fix this next line:
3   aFile.puts(number)
4   index = 0
5   while (index < number)
6     aFile.puts(index.to_s)
7     index += 1
8   end
9 end
10
11 # Read the data from the file and print out each line
12 def read(aFile)
13
14   # Defensive programming:
15   count = aFile.gets.chomp
16   if (is_numeric?(count))
17     count = count.to_i
18   else
19     count = 0
20     puts "Error: first line of file is not a number"
21   end
22
23   index = 0
24   while (index < count )
25     line = aFile.gets
26     puts "Line read: " + line
27     index += 1
28   end
29 end
30
31 # Write data to a file then read it in and print it out
32 def main
33   aFile = File.new("mydata.txt", "w") # open for writing
34   write(aFile, 10)
35   aFile.close
36
37   aFile = File.new("mydata.txt", "r")
38   read(aFile)
39   aFile.close
40 end
41
42 # returns true if a string contains only digits
43 def is_numeric?(obj)
44   if /[~0-9]/.match(obj) == nil
45     true
46   else
47     false
48   end
49
50 end
51
52 main
53
```

```
PS D:\COS10009\CODE\LAB3> CD..  
PS D:\COS10009\CODE> CD LAB9  
PS D:\COS10009\CODE\LAB9> ruby 9_1T.rb  
Line read: 0  
Line read: 1  
Line read: 2  
Line read: 3  
Line read: 4  
Line read: 5  
Line read: 6  
Line read: 7  
Line read: 8  
Line read: 9  
PS D:\COS10009\CODE\LAB9> |
```