MSC575_ATOPP_WEEK1_LAB1

July 5, 2018

In [2]:
```
# Algorithm for driving between two destinations.
# p.6 Finger exercise

print('Head west on Beckenham Blvd for 450 feet')
print('Turn right onto Beckenham Way and drive for 100 feet')
print('Turn right to Lynnhaven Pkwy')
print('Drive on Lynnhaven Pkwy for 1.5 miles')
print('Turn right onto S Rosemont Rd')
print('Drive on S Rosemont Rd for 0.7 miles')
print('Turn right onto Faculty Blvd')
print('Drive for 400 feet on Faculty Blvd and your destination will be on the right')
```

```
Head west on Beckenham Blvd for 450 feet
Turn right onto Beckenham Way and drive for 100 feet
Turn right to Lynnhaven Pkwy
Drive on Lynnhaven Pkwy for 1.5 miles
Turn right onto S Rosemont Rd
Drive on S Rosemont Rd for 0.7 miles
Turn right onto Faculty Blvd
Drive for 400 feet on Faculty Blvd and your destination will be on the right
```

MSC575_ATOPP_WEEK1_LAB2

July 5, 2018

In [1]:
```
# Write the program that asks the user to input 10 integers,
# and then prints the largest odd number that was entered.
# p.24 of the textbook, Finger exercise

num = [input('Enter an integer: ') for i in range(10)] # asking a user for 10 integers
odds = [x for x in num if int(x) % 2 == 1]             # filtering only odd number fro

# Condition: if odd numbers are entered, then retrieve the biggest one
# if there were no odd numberes entered then print "No odd numbers were entered"

if odds:
    print('Maximum odd number is:', max(odds))
else:
    print('No odd numbers were entered')
```

```
Enter an integer: 1
Enter an integer: 34
Enter an integer: 25
Enter an integer: 789
Enter an integer: 345
Enter an integer: 23
Enter an integer: 90
Enter an integer: 4567
Enter an integer: 12334
Enter an integer: 45
Maximum odd number is: 789
```

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function | Addins | Project: (None)

Untitled1*

Source on Save | Run | Source

```
1  # Alla Topp
2
3  n <- floor(rnorm(10000, 500, 100))
4  t <- table(n)
5  barplot(t)
6
```

2:1 (Top Level) R Script

Environment History Connections

Import Dataset | List

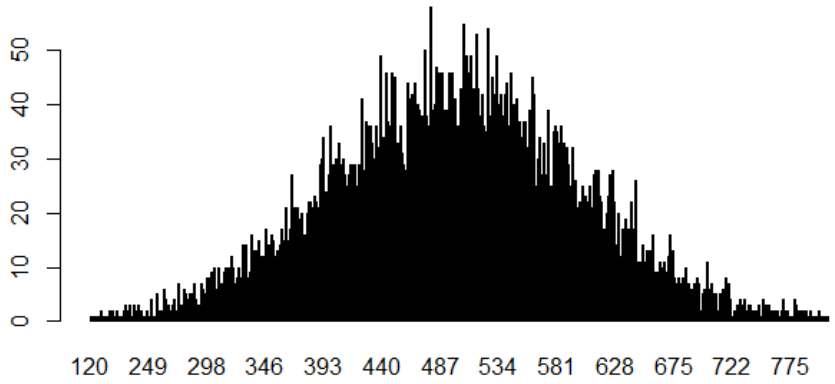
Global Environment

Values

n	num [1:10000] 633 648 547 480 567 538 390 525 274 294 ...
t	'table' int [1:594(1d)] 1 1 1 1 1 1 1 1 1 2 ...

Files Plots Packages Help Viewer

Zoom | Export | Publish



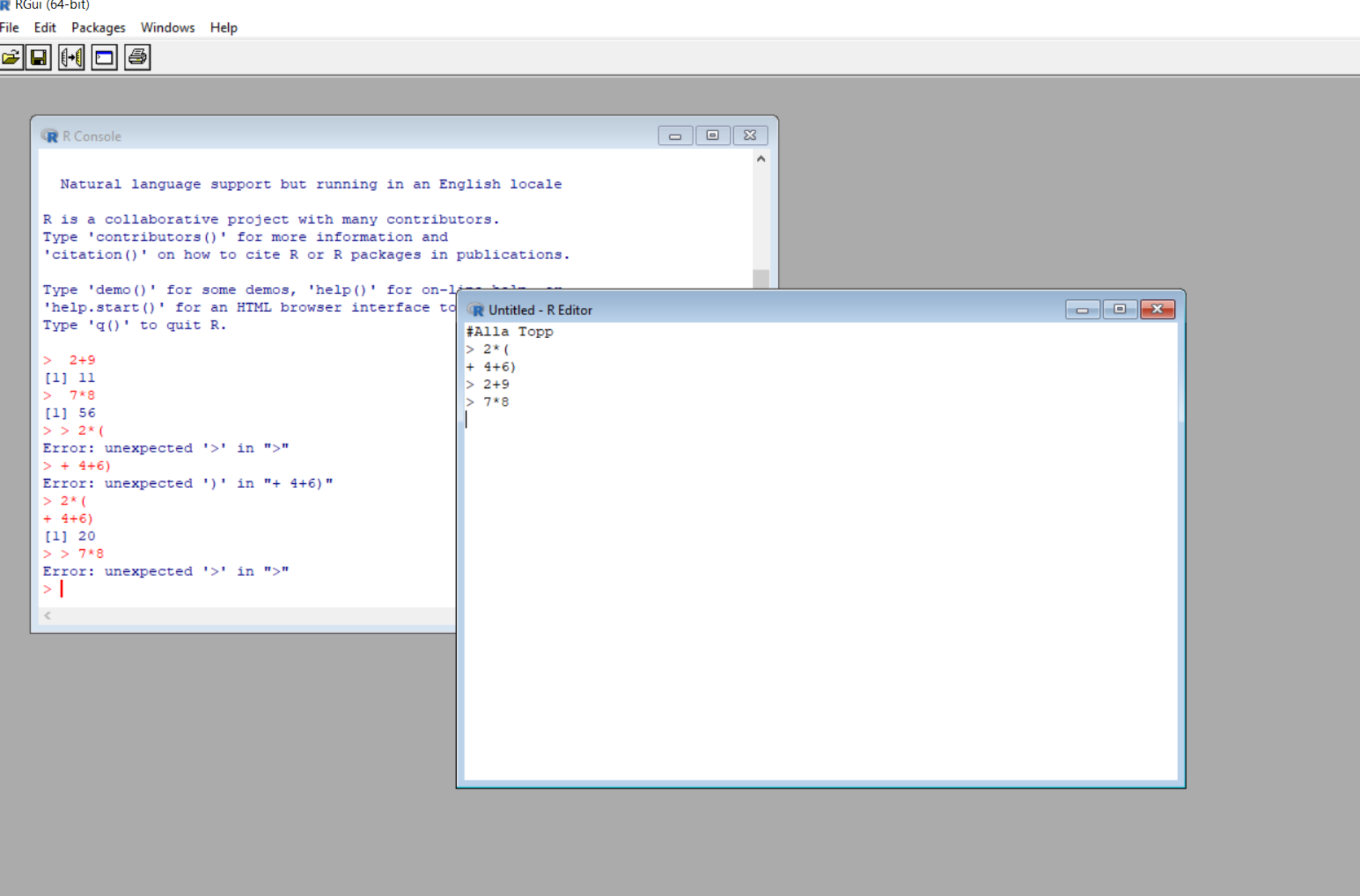
Console Terminal

```
Type 'license()' or 'licence()' for distribution details.

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> barplot(t)
Error in barplot.default(t) : 'height' must be a vector or a matrix
> n <- floor(rnorm(10000, 500, 100))
> t <- table(n)
> barplot(t)
>
```


RGui (64-bit)
File Edit Packages Windows Help
R Console
Natural language support but running in an English locale
R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.
Type 'demo()' for some demos, 'help()' for on-
'help.start()' for an HTML browser interface to
Type 'q()' to quit R.
> 2+9
[1] 11
> 7*8
[1] 56
> > 2*(
Error: unexpected '>' in ">"
> + 4+6)
Error: unexpected ')' in "+ 4+6)"
> 2*(
+ 4+6)
[1] 20
> > 7*8
Error: unexpected '>' in ">"
>
Untitled - R Editor
#Alla Topp
> 2*(
+ 4+6)
> 2+9
> 7*8