DataTypes-and-Vectors.R

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# 1)   
  
# a) Create an integer vector vecInt with values {12,25,38,44}  
vecInt <- c(12L,25L,38L,44L)  
vecInt

## [1] 12 25 38 44

# b) Create vecDou with values {3,4.6,5.5,2.3,,4,6.8}  
vecDou <- c(3,4.6,5.5,2.3,4,6.8)  
vecDou

## [1] 3.0 4.6 5.5 2.3 4.0 6.8

# c) Create vecCom with values {2+3i,4-5i,2i}  
vecCom <- c(2+3i,4-5i,2i)  
vecCom

## [1] 2+3i 4-5i 0+2i

# 2) Insert the element 32 to vecInt created in Ques 1  
vecInt <- c(vecInt, 32L)  
vecInt

## [1] 12 25 38 44 32

# 3) Check the length of vecDou  
length(vecDou)

## [1] 6

# 4) Create a numeric vector with values from 15 to 1 in steps of 3  
a <- seq(15,1,-3)  
a

## [1] 15 12 9 6 3

# 5) Coerce vecDou to type integer  
as.integer(vecDou)

## [1] 3 4 5 2 4 6

# 6) Access all the elements of vecDou except the 3rd and the 5th  
vecDou[c(-3,-5)]

## [1] 3.0 4.6 2.3 6.8

# 7) Create the following vector:  
  
# a)   
x <- c(1.7, "Good")  
typeof(x)

## [1] "character"

# b)  
y <- c(2, TRUE)  
typeof(y)

## [1] "double"