

# RWorksheet\_Soldevilla#3a

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#1. VECTORS #A. {r number1a} first_eleven <- LETTERS[1:11] first_eleven #B. {r number1b}
odd_letters <- LETTERS[seq(1,25,2)] odd_letters

#C. {r number1c} vowels <- c(letters[which(letters %in% c("a","e","i","o","u"))], LETTERS[which(LETTERS
%in% c("A","E","I","O","U"))]) vowels

#D. {r number1d} last5letter <- tail(letters, 5) last5letter #E. {r number1e} letterbetween15to24 <-
letters[15:24] letterbetween15to24

#NUMBER 2 #A. {r number2a} city <- c("Tuguegarao City", "Manila", "Iloilo City", "Tacloban", "Samal
Island", "Davao City") city #B. {r number2b} temp <- c(42, 39, 34, 34, 30, 27) temp #C. {r number2c} df
<- data.frame(city, temp) df #D. {r number2d} names(df) <- c("City", "Temperature") df

#E. {r number2e} str(df)

#F. {r number2f} df[3:4,]

#G. {r number2g} highest_temp_city <- dfCity[which.max(df$Temperature)] lowest_temp_city <-
dfCity[which.min(df$Temperature)] highest_temp_city lowest_temp_city

#2 MATRICES #A. {r number#2a} m <- matrix(c(1:8,11:14),ncol=4,nrow=3) m #B. {r number#2b}
matrix(c(1:8,11:14),ncol=4,nrow=3) * 2

#C. {r number#2c} matrix(c(1:8,11:14),ncol=4,nrow=3)[2,]

#D. {r number#2d} matrix(c(1:8,11:14),ncol=4,nrow=3)[1:2,c(3,4)]

#E. {r number#2e} matrix(c(1:8,11:14),ncol=4,nrow=3)[3,c(2,3)]

#F. {r number#2f} matrix(c(1:8,11:14),ncol=4,nrow=3)[4,] #G. {r number#2g} mat <- ma-
trix(c(1:8,11:14)*2,ncol=4,nrow=3) rownames(mat) <- c("isa","dalawa","tatlo") colnames(mat) <-
c("uno","dos","tres","cuatro") mat

#H. {r number#2h}
dim(m) <- c(6,2) m

#3. ARRAYS #A. {r number#3a} values <- c(1, 2, 3, 6, 7, 8, 9, 0, 3, 4, 5, 1) array_3d <- array(values, dim
= c(2, 4, 3)) values array_3d #B. {r number#3b} #B: The array has three dimensions. #C. {r number#3c}
dimnames(array_3d) <- list(c("a", "b"), LETTERS[1:4], c("1st-Dimensional Array", "2nd-Dimensional
Array", "3rd-Dimensional Array")) array_3d
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