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> #Problem Statement
> #1. Test whether two vectors are exactly equal (element by
> # element)
> vec1 = c(rownames(mtcars[1:15,]))
> vec2 = c(rownames(mtcars[11:25,]))
>
> vec1 == vec2
[1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
FALSE FALSE FALSE
> #Element by element is not equal for vec1 and vec2 hence all returned FALSE
.
>
> #2. Sort the character vector in ascending order and descending
> #order
> vec1 = c(rownames(mtcars[1:15,]))
> vec2 = c(rownames(mtcars[11:25,]))
>
> sort(vec1,decreasing = FALSE)
[1] "Cadillac Fleetwood" "Datsun 710" "Duster 360" "Hornet 4
Drive"
[5] "Hornet Sportabout" "Mazda RX4" "Mazda RX4 wag" "Merc 230
"
[9] "Merc 240D" "Merc 280" "Merc 280C" "Merc 450
SE"
[13] "Merc 450SL" "Merc 450SLC" "Valiant"
> sort(vec1,decreasing = TRUE)
[1] "Valiant" "Merc 450SLC" "Merc 450SL" "Merc 450
SE"
[5] "Merc 280C" "Merc 280" "Merc 240D" "Merc 230
"
[9] "Mazda RX4 wag" "Mazda RX4" "Hornet Sportabout" "Hornet 4
Drive"
[13] "Duster 360" "Datsun 710" "Cadillac Fleetwood"
>
> sort(vec2,decreasing = FALSE)
[1] "AMC Javelin" "Cadillac Fleetwood" "Camaro Z28" "Chrys
ler Imperial"
[5] "Dodge Challenger" "Fiat 128" "Honda Civic" "Linco
ln Continental"
[9] "Merc 280C" "Merc 450SE" "Merc 450SL" "Merc
450SLC"
[13] "Pontiac Firebird" "Toyota Corolla" "Toyota Corona"
> sort(vec2,decreasing = TRUE)
[1] "Toyota Corona" "Toyota Corolla" "Pontiac Firebird" "Merc
450SLC"
[5] "Merc 450SL" "Merc 450SE" "Merc 280C" "Linco
ln Continental"
[9] "Honda Civic" "Fiat 128" "Dodge Challenger" "Chrys
ler Imperial"
[13] "Camaro Z28" "Cadillac Fleetwood" "AMC Javelin"
>
> #3.What is the major difference between str c() and paste()
> #show an example.
>
> #Str_c is equivalent to paste(), which means you do have the option to
> #customize your desired separator. The difference is for str_c() the
> #default is no separator
> #Example below.
> #Default str_c example
>
> vec3<- c("This","to","strc")
> vec4<- c("is","test","paste")
>

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> library(stringr)
> str_c(vec3,vec4)
[1] "Thisis"      "totest"      "strcpaste"
> #We can see in above str_c command in the console that default is with no s
eparator.
>
> str_c(vec3,vec4,sep = ".")
[1] "This.is"      "to.test"      "strc.paste"
> #Above is the str_c command with separator "."
>
> #paste command example.
> #The below default paste command unlike str_c adds a space separator.
> paste(vec3,vec4)
[1] "This is"      "to test"      "strc paste"
> #Below is the paste command with separator "."
> paste(vec3,vec4,sep = ".")
[1] "This.is"      "to.test"      "strc.paste"
>
> #4#Introduce a separator when concatenating the strings
>
> #Elementwise concatenation of string vectors with separator "$"
> paste(vec1,vec2,sep = "$")
[1] "Mazda RX4$Merc 280C"      "Mazda RX4 Wag$Merc 450SE"
[3] "Datsun 710$Merc 450SL"    "Hornet 4 Drive$Merc 450SLC"
[5] "Hornet Sportabout$Cadillac Fleetwood" "Valiant$Lincoln Continental"
[7] "Duster 360$Chrysler Imperial" "Merc 240D$Fiat 128"
[9] "Merc 230$Honda Civic"     "Merc 280$Toyota Corolla"
[11] "Merc 280C$Toyota Corona"  "Merc 450SE$Dodge Challenger"
[13] "Merc 450SL$AMC Javelin"   "Merc 450SLC$Camaro Z28"
[15] "Cadillac Fleetwood$Pontiac Firebird"

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