PS1

# Importing libraries

library(ggplot2)

## Warning: package 'ggplot2' was built under R version 3.5.3

library(readr)

## Warning: package 'readr' was built under R version 3.5.3

library(stringr)

# Reading the Data from CSV files.

nba <- read\_csv("nba2017-18.csv")

## Parsed with column specification:  
## cols(  
## .default = col\_double(),  
## Player = col\_character(),  
## Season = col\_character(),  
## Tm = col\_character(),  
## Lg = col\_character(),  
## Ht = col\_character()  
## )

## See spec(...) for full column specifications.

pacers = read\_csv("pacers2017-18.csv")

## Warning: Missing column names filled in: 'X7' [7]

## Parsed with column specification:  
## cols(  
## No. = col\_double(),  
## Player = col\_character(),  
## Pos = col\_character(),  
## Ht = col\_character(),  
## Wt = col\_double(),  
## `Birth Date` = col\_character(),  
## X7 = col\_character(),  
## Exp = col\_character(),  
## College = col\_character()  
## )

# Converting player names to characters

pacers = data.frame(pacers)  
#class(pacers$Player)  
pacers$Player = as.character(pacers$Player)  
pacers$Player = str\_split\_fixed(pacers$Player, "\\\\", 2)[,1]

# Converting player height to inches

pacers$Height = as.numeric(substring(pacers$Ht,1,1)) \* 12 + as.numeric(substring(pacers$Ht,3,nchar(pacers$Ht)))

# Plotting the graph

pacers$Player = factor(pacers$Player, levels = pacers$Player[order(pacers$Pos,pacers$Height)])  
gg = ggplot(pacers, aes(x = Player, y = Height, fill = Pos)) + geom\_bar(stat="identity") + ylab("Height (in inches)") + xlab("Player Name") + ggtitle("Heights of players in Pacers (2017-18)") + coord\_flip()  
gg

