

HarvardX Data Science Capstone - NBA Salary Report

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Introduction

The capstone for HarvardX's data science certification is to create your own model. The following report will detail the process of creating a model that predicts the salary of NBA players based on their performance. The NBA stats were acquired from a dataset on kaggle, which I uploaded to my own github repository. The salary information was scraped from a website, hoopshype. I limited my data to the career of LeBron James, 2004 to 2023, as both the game and the business of basketball have changed drastically during his career.

The report includes sections on: a data overview, the project's goal, setting up the data, exploring the data and insights gained, and creating and evaluating the model.

Data Overview

The data set from kaggle had many tables. I wanted players performance to be more comparable so I limited player data to two types of stats: per 36 minute stats as well as advanced stats. Per 36 minute stats are stats divided by minutes played for that player then multiplied by 36 to try and account for players that see more or less playing time. Many of the advanced stats also try and make players more comparable, but go beyond just dividing and multiplying a single stat usually. Definitions for all of the player stats can be found in basketball reference's glossary. With the data on my own github repository, I was able to have the files automatically downloaded and placed in a folder in the home directory using the following code.

```
#download data from github
# Set the URL of the raw CSV file on GitHub
github_csv_url1 <- "https://raw.githubusercontent.com/dgross55/edxcapstone-NBA-pay-and-performance/main,
github_csv_url2 <- "https://raw.githubusercontent.com/dgross55/edxcapstone-NBA-pay-and-performance/main,
# Set the destination folder where you want to save the dataset
destination_folder <- "data/"
# Create the destination folder if it doesn't exist
if (!dir.exists(destination_folder)) {
  dir.create(destination_folder, recursive = TRUE)
}
# Use the download.file function to download the datasets
download.file(github_csv_url1, destfile = file.path(destination_folder, "Per 36 Minutes.csv"), mode = "
download.file(github_csv_url2, destfile = file.path(destination_folder, "Advanced.csv"), mode = "wb")
#grab the specific datasets
player_per36 <- fread("data/Per 36 Minutes.csv")
player_advanced <- fread("data/Advanced.csv")
```

Project Goal

The goal of this project is to predict the salary of NBA players based on their performance. This information could then identify players that are performing better than their salary would suggest they should or be used to justify a smaller contract in the future if performance is not up to the level of pay.

Setting Up The Data

As mentioned previously, my data was sourced from multiple sites: kaggle & hoopshype. To acquire the data from hoopshype, I used a for loop to scrape multiple pages of salary information. The following code was used for the for loop. I also included a fail safe to download the salary data from my github repository as hoopshype sometimes returned blank pages when scraping leading to errors.

```
#scrape for player salaries
#for loop years, links, & empty table
seasons1 <- seq(2003,2022)
seasons2 <- seq(2004,2023)
colseasons <- sprintf("%02d", 4:23)
link <- paste0("https://hoopshype.com/salaries/players/",seasons1,"-",seasons2,"/")
num_links <- length(link)
salaries <- data.frame()

#create handle_error function
handle_error <- function(page) {
  cat("Error processing value:", page, "\n")
  cat("Downloading CSV from GitHub...\n")

  # URL of the Salaries CSV file on GitHub
  githubfs_csv_url <- "https://raw.githubusercontent.com/dgross55/edxcapstone-NBA-pay-and-performance/main/data/Salaries.csv"
  # Set the destination folder where you want to save the dataset
  destination_folder <- "data/"
  # Download the dataset
  download.file(githubfs_csv_url, destfile = file.path(destination_folder, "Salaries.csv"), mode = "wb")
  # Import downloaded dataset
  salaries2 <- fread("data/Salaries.csv")
}

#flag to tell the loop to continue or not
continue_loop <- TRUE

#scraper for loop for player salaries
scraper <- for(page in 1:num_links){
  if (!continue_loop){
    break
  }
  #error handling since hoopshype not always reliable
  tryCatch({
    #to track for loop progress
    cat("Processing value:", page, "\n")
    #read the page
    sal <- read_html(link[page])
    #get the table
    sal <- sal |> html_table(header = TRUE)
```

```

#make it a data frame
sal <- as.data.frame(sal)
#dynamic column names based on current loop
current_column <- paste0("X",seasons1[page],".",colseasons[page],"...")
#specify columns & rename
sal <- select(sal, Player, !!as.name(current_column)) %>%
  rename("Salary" = !!as.name(current_column))
#add the season to the table
sal <- cbind(sal, Season = seasons2[page])

#add output to data frame
salaries <- rbind(salaries, sal)

#to track for loop progress
cat("Finished processing value:", page, "\n\n")
},
#error handling to just get the dataset from github repository
error = function(e) {
  salaries <- handle_error(page)
  assign("continue_loop", FALSE, envir = .GlobalEnv) #set at global environment so that the for loop
})
}

```

```

## Processing value: 1
## Finished processing value: 1
##
## Processing value: 2
## Finished processing value: 2
##
## Processing value: 3
## Finished processing value: 3
##
## Processing value: 4
## Finished processing value: 4
##
## Processing value: 5
## Finished processing value: 5
##
## Processing value: 6
## Finished processing value: 6
##
## Processing value: 7
## Finished processing value: 7
##
## Processing value: 8
## Finished processing value: 8
##
## Processing value: 9
## Finished processing value: 9
##
## Processing value: 10
## Finished processing value: 10
##

```

```
## Processing value: 11
## Finished processing value: 11
##
## Processing value: 12
## Finished processing value: 12
##
## Processing value: 13
## Finished processing value: 13
##
## Processing value: 14
## Finished processing value: 14
##
## Processing value: 15
## Finished processing value: 15
##
## Processing value: 16
## Finished processing value: 16
##
## Processing value: 17
## Finished processing value: 17
##
## Processing value: 18
## Finished processing value: 18
##
## Processing value: 19
## Finished processing value: 19
##
## Processing value: 20
## Finished processing value: 20
```

Once I had the salary information, I needed to ensure the column names matched the other data tables for easier combining & I also needed to convert the salary information from a character to a numeric as well as remove the leading dollar sign and the separating commas. The code below shows these two cleaning steps. These steps are not necessary if the data was downloaded from the github repository.

```
#change salaries column names to all lowercase to match other tables
colnames(salaries) <- tolower(colnames(salaries))
#convert salary column from character to numeric (take out $ signs and ,)
salaries$salary <- as.numeric(gsub("[\\$,]", "", salaries$salary))
```

Next, I combined the player_per36 data and the player_advanced data into a single table, which I then combined with the salary information. This left me with 10,842 observations for 55 different variables.

```
#combine tables
#list common columns
common_cols <- c("seas_id", "season", "player_id", "player", "birth_year", "pos", "age", "experience", "
#get list of cols from player_advanced that are not common to both tables
padvanced_desired_cols <- setdiff(names(player_advanced), common_cols)
#create data frame that has values to join on, seas_id & player_id, and cols that are unique to player_
player_advanced_sel <- player_advanced %>%
  select("seas_id", "player_id", padvanced_desired_cols)
```

```
## Warning: Using an external vector in selections was deprecated in tidysselect 1.1.0.
```

```
## i Please use 'all_of()' or 'any_of()' instead.
## # Was:
## data %>% select(padvanced_desired_cols)
##
## # Now:
## data %>% select(all_of(padvanced_desired_cols))
##
## See <https://tidyselect.r-lib.org/reference/faq-external-vector.html>.
## This warning is displayed once every 8 hours.
## Call 'lifecycle::last_lifecycle_warnings()' to see where this warning was
## generated.
```

```
#combine desired player_advanced cols & per36
player_stats <- merge(
  player_per36,
  player_advanced_sel,
  by = c("seas_id", "player_id")
)
#combine player_stats & salaries, only keep rows that match, 31633 obs to 10842 obs
player_stats_sals <- merge(
  player_stats,
  salaries,
  by = c("player", "season")
)

#summary of table
summary(player_stats_sals)
```

```
##      player      season      seas_id      player_id
## Length:10842      Min.   :2004      Min.   :18730      Min.   :2187
## Class :character      1st Qu.:2009      1st Qu.:21778      1st Qu.:3440
## Mode  :character      Median :2014      Median :24851      Median :3835
##                                     Mean   :2014      Mean   :24886      Mean   :3854
##                                     3rd Qu.:2019      3rd Qu.:27965      3rd Qu.:4255
##                                     Max.    :2023      Max.    :31135      Max.    :5108
##
##      birth_year      pos      age      experience
## Min.   :1975      Length:10842      Min.   :18.00      Min.   : 1.000
## 1st Qu.:1980      Class :character      1st Qu.:23.00      1st Qu.: 2.000
## Median :1984      Mode  :character      Median :26.00      Median : 5.000
## Mean   :1983                                     Mean   :26.56      Mean   : 5.696
## 3rd Qu.:1986                                     3rd Qu.:29.00      3rd Qu.: 8.000
## Max.   :2002                                     Max.    :43.00      Max.    :22.000
## NA's   :10719
##      lg      tm      g      gs
## Length:10842      Length:10842      Min.   : 1.00      Min.   : 0.00
## Class :character      Class :character      1st Qu.:22.00      1st Qu.: 0.00
## Mode  :character      Mode  :character      Median :49.00      Median : 7.00
##                                     Mean   :45.55      Mean   :21.75
##                                     3rd Qu.:69.00      3rd Qu.:40.00
##                                     Max.    :85.00      Max.    :83.00
##
##      mp      fg_per_36_min      fga_per_36_min      fg_percent
## Min.   : 0      Min.   : 0.000      Min.   : 0.00      Min.   :0.0000
```

##	1st Qu.: 273	1st Qu.: 3.900	1st Qu.: 9.10	1st Qu.:0.3960
##	Median : 871	Median : 5.000	Median :11.40	Median :0.4380
##	Mean :1056	Mean : 5.039	Mean :11.56	Mean :0.4373
##	3rd Qu.:1730	3rd Qu.: 6.100	3rd Qu.:13.70	3rd Qu.:0.4840
##	Max. :3424	Max. :36.000	Max. :45.00	Max. :1.0000
##		NA's :4	NA's :4	NA's :60
##	x3p_per_36_min	x3pa_per_36_min	x3p_percent	x2p_per_36_min
##	Min. : 0.000	Min. : 0.000	Min. :0.0000	Min. : 0.000
##	1st Qu.: 0.000	1st Qu.: 0.400	1st Qu.:0.2400	1st Qu.: 2.600
##	Median : 1.000	Median : 3.300	Median :0.3330	Median : 3.800
##	Mean : 1.103	Mean : 3.327	Mean :0.2924	Mean : 3.936
##	3rd Qu.: 1.800	3rd Qu.: 5.200	3rd Qu.:0.3760	3rd Qu.: 5.100
##	Max. :12.000	Max. :36.000	Max. :1.0000	Max. :36.000
##	NA's :4	NA's :4	NA's :1395	NA's :4
##	x2pa_per_36_min	x2p_percent	ft_per_36_min	fta_per_36_min
##	Min. : 0.000	Min. :0.0000	Min. : 0.000	Min. : 0.000
##	1st Qu.: 5.800	1st Qu.:0.4290	1st Qu.: 1.200	1st Qu.: 1.800
##	Median : 8.000	Median :0.4780	Median : 2.000	Median : 2.800
##	Mean : 8.234	Mean :0.4749	Mean : 2.284	Mean : 3.133
##	3rd Qu.:10.400	3rd Qu.:0.5270	3rd Qu.: 3.000	3rd Qu.: 4.100
##	Max. :36.000	Max. :1.0000	Max. :36.000	Max. :36.000
##	NA's :4	NA's :122	NA's :4	NA's :4
##	ft_percent	orb_per_36_min	drb_per_36_min	trb_per_36_min
##	Min. :0.0000	Min. : 0.000	Min. : 0.000	Min. : 0.000
##	1st Qu.:0.6670	1st Qu.: 0.600	1st Qu.: 3.200	1st Qu.: 4.000
##	Median :0.7550	Median : 1.200	Median : 4.300	Median : 5.700
##	Mean :0.7307	Mean : 1.724	Mean : 4.669	Mean : 6.393
##	3rd Qu.:0.8260	3rd Qu.: 2.600	3rd Qu.: 5.900	3rd Qu.: 8.400
##	Max. :1.0000	Max. :36.000	Max. :36.000	Max. :54.000
##	NA's :553	NA's :4	NA's :4	NA's :4
##	ast_per_36_min	stl_per_36_min	blk_per_36_min	to_v_per_36_min
##	Min. : 0.000	Min. : 0.000	Min. : 0.0000	Min. : 0.000
##	1st Qu.: 1.500	1st Qu.: 0.700	1st Qu.: 0.2000	1st Qu.: 1.400
##	Median : 2.400	Median : 1.000	Median : 0.5000	Median : 1.900
##	Mean : 2.957	Mean : 1.107	Mean : 0.7335	Mean : 2.011
##	3rd Qu.: 4.000	3rd Qu.: 1.400	3rd Qu.: 1.0000	3rd Qu.: 2.500
##	Max. :36.000	Max. :18.000	Max. :18.0000	Max. :28.800
##	NA's :4	NA's :4	NA's :4	NA's :4
##	pf_per_36_min	pts_per_36_min	per	ts_percent
##	Min. : 0.000	Min. : 0.00	Min. : -54.40	Min. :0.0000
##	1st Qu.: 2.500	1st Qu.:10.30	1st Qu.: 9.50	1st Qu.:0.4840
##	Median : 3.200	Median :13.20	Median : 12.60	Median :0.5300
##	Mean : 3.517	Mean :13.46	Mean : 12.52	Mean :0.5182
##	3rd Qu.: 4.200	3rd Qu.:16.30	3rd Qu.: 15.90	3rd Qu.:0.5680
##	Max. :72.000	Max. :72.00	Max. :129.10	Max. :1.5000
##	NA's :4	NA's :4	NA's :4	NA's :57
##	x3p_ar	f_tr	orb_percent	drb_percent
##	Min. :0.0000	Min. :0.0000	Min. : 0.000	Min. : 0.00
##	1st Qu.:0.0380	1st Qu.:0.1650	1st Qu.: 2.000	1st Qu.: 9.90
##	Median :0.2790	Median :0.2490	Median : 3.900	Median : 13.50
##	Mean :0.2793	Mean :0.2863	Mean : 5.407	Mean : 14.63
##	3rd Qu.:0.4400	3rd Qu.:0.3560	3rd Qu.: 8.100	3rd Qu.: 18.60
##	Max. :1.0000	Max. :6.0000	Max. :100.000	Max. :100.00
##	NA's :60	NA's :60	NA's :4	NA's :4

```
##   trb_percent    ast_percent    stl_percent    blk_percent
##   Min.   : 0.00    Min.   : 0.00    Min.   : 0.000    Min.   : 0.000
##   1st Qu.: 6.20    1st Qu.: 6.40    1st Qu.: 1.000    1st Qu.: 0.500
##   Median : 9.00    Median : 10.10   Median : 1.400    Median : 1.100
##   Mean   :10.02    Mean   : 12.79   Mean   : 1.559    Mean   : 1.652
##   3rd Qu.:13.20    3rd Qu.: 17.20   3rd Qu.: 1.900    3rd Qu.: 2.300
##   Max.   :86.40    Max.   :100.00   Max.   :25.000    Max.   :44.100
##   NA's   :4       NA's   :4       NA's   :4       NA's   :4
##   tov_percent    usg_percent        ows        dws
##   Min.   : 0.00    Min.   : 0.00    Min.   :-3.300    Min.   :-0.600
##   1st Qu.: 10.20    1st Qu.:14.80    1st Qu.: 0.000    1st Qu.: 0.200
##   Median : 12.90    Median :18.00    Median : 0.400    Median : 0.700
##   Mean   : 13.69    Mean   :18.49    Mean   : 1.123    Mean   : 1.068
##   3rd Qu.: 16.10    3rd Qu.:21.80    3rd Qu.: 1.700    3rd Qu.: 1.600
##   Max.   :100.00    Max.   :54.60    Max.   :14.800    Max.   : 9.100
##   NA's   :47       NA's   :4
##           ws           ws_48           obpm           dbpm
##   Min.   :-2.100    Min.   :-1.31200    Min.   :-1000.000    Min.   :-31.1000
##   1st Qu.: 0.200    1st Qu.: 0.03300    1st Qu.: -3.300    1st Qu.: -1.0000
##   Median : 1.200    Median : 0.07800    Median : -1.400    Median : -0.2000
##   Mean   : 2.193    Mean   : 0.06957    Mean   : -1.732    Mean   : -0.1988
##   3rd Qu.: 3.300    3rd Qu.: 0.11900    3rd Qu.: 0.300    3rd Qu.: 0.7000
##   Max.   :20.300    Max.   : 2.12300    Max.   : 42.100    Max.   : 32.7000
##   NA's   :4
##           bpm           vorp           salary
##   Min.   :-1000.000    Min.   :-2.0000    Min.   : 6022
##   1st Qu.: -3.500    1st Qu.: -0.1000    1st Qu.: 1453658
##   Median : -1.500    Median : 0.1000    Median : 3531250
##   Mean   : -1.931    Mean   : 0.5146    Mean   : 6779526
##   3rd Qu.: 0.400    3rd Qu.: 0.7000    3rd Qu.: 9153669
##   Max.   : 52.000    Max.   :11.8000    Max.   :51411079
##
```

My last data processing was to get rid of NAs. The whole birth_year column from the player_stats was empty, so I got rid of it, reducing my data set to 54 variables, and I also got rid of any other NA values.

```
#data preprocessing
#NAs
missing_values <- sapply(player_stats_sals, function(x) sum(is.na(x)))
print(missing_values)
```

```
##           player      season      seas_id      player_id      birth_year
##           0           0           0           0           10719
##           pos         age      experience           lg           tm
##           0           0           0           0           0
##           g           gs           mp      fg_per_36_min      fga_per_36_min
##           0           0           0           4           4
##           fg_percent  x3p_per_36_min  x3pa_per_36_min      x3p_percent  x2p_per_36_min
##           60           4           4           1395           4
##           x2pa_per_36_min      x2p_percent      ft_per_36_min      fta_per_36_min      ft_percent
##           4           122           4           4           553
##           orb_per_36_min      drb_per_36_min      trb_per_36_min      ast_per_36_min      stl_per_36_min
##           4           4           4           4           4
```

```
## blk_per_36_min  tov_per_36_min  pf_per_36_min  pts_per_36_min      per
##           4           4           4           4           4
##      ts_percent      x3p_ar      f_tr      orb_percent      drb_percent
##           57           60           60           4           4
##      trb_percent      ast_percent      stl_percent      blk_percent      tov_percent
##           4           4           4           4           47
##      usg_percent      ows      dws      ws      ws_48
##           4           0           0           0           4
##           obpm      dbpm      bpm      vorp      salary
##           0           0           0           0           0
```

```
#remove all NAs - 10842 obs to 9100
player_stats_sals <- player_stats_sals %>% select(-birth_year)
player_stats_sals <- na.omit(player_stats_sals)

#remove tables & objects no longer needed
rm(player_advanced, player_advanced_sel, player_per36, player_stats, sal, colseasons,
    common_cols, current_column, link, num_links, package, packages_to_install,
    padvanced_desired_cols, page, scraper, seasons1, seasons2, missing_values, destination_folder,
    github_csv_url1, github_csv_url2)
```

In some instances, the NAs are valid, for example players who do not shoot any 3 pointers having an NA x3p_percent, but I still decided to remove them from my data set for simplicity. This reduced my data set from 10,842 observations to 9,100.

Exploring The Data & Insights

My next step was to explore each of the variables in the data set. Since my data spanned multiple NBA seasons, I was curious if any of these stats have changed over time. In most instances I looked at the stat for all players and all seasons as well as a by season variation. Here is a list of all of the variables in the data set.

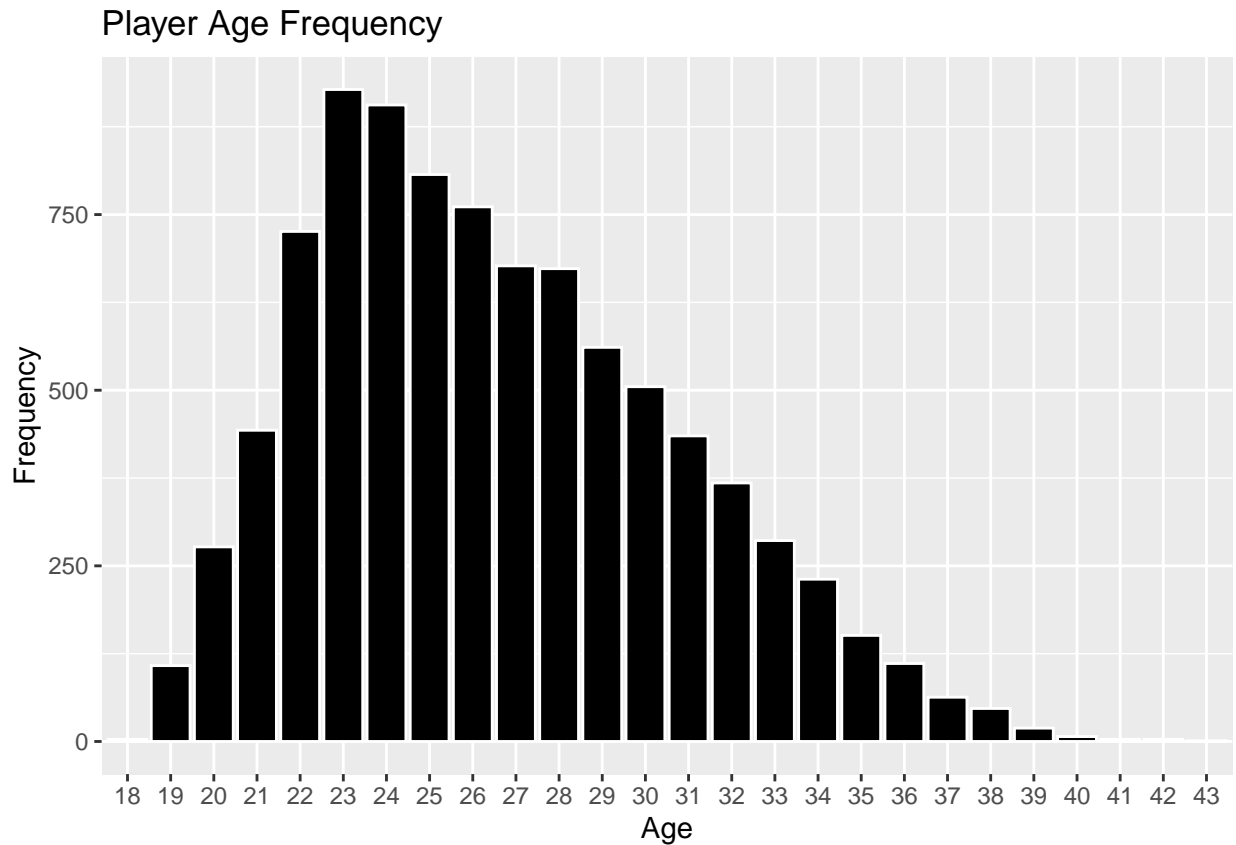
```
colnames(player_stats_sals)
```

```
## [1] "player"      "season"      "seas_id"     "player_id"
## [5] "pos"         "age"         "experience"   "lg"
## [9] "tm"          "g"           "gs"           "mp"
## [13] "fg_per_36_min" "fga_per_36_min" "fg_percent"   "x3p_per_36_min"
## [17] "x3pa_per_36_min" "x3p_percent"   "x2p_per_36_min" "x2pa_per_36_min"
## [21] "x2p_percent"   "ft_per_36_min" "fta_per_36_min" "ft_percent"
## [25] "orb_per_36_min" "drb_per_36_min" "trb_per_36_min" "ast_per_36_min"
## [29] "stl_per_36_min" "blk_per_36_min" "tov_per_36_min" "pf_per_36_min"
## [33] "pts_per_36_min" "per"           "ts_percent"   "x3p_ar"
## [37] "f_tr"          "orb_percent"   "drb_percent"   "trb_percent"
## [41] "ast_percent"   "stl_percent"   "blk_percent"   "tov_percent"
## [45] "usg_percent"   "ows"           "dws"           "ws"
## [49] "ws_48"         "obpm"          "dbpm"          "bpm"
## [53] "vorp"          "salary"
```

Age I started with demographic data first, specifically age. Twenty-three is the most frequent age in the data set, while the mean is slightly over 26. However, when you break it out by season, there are some

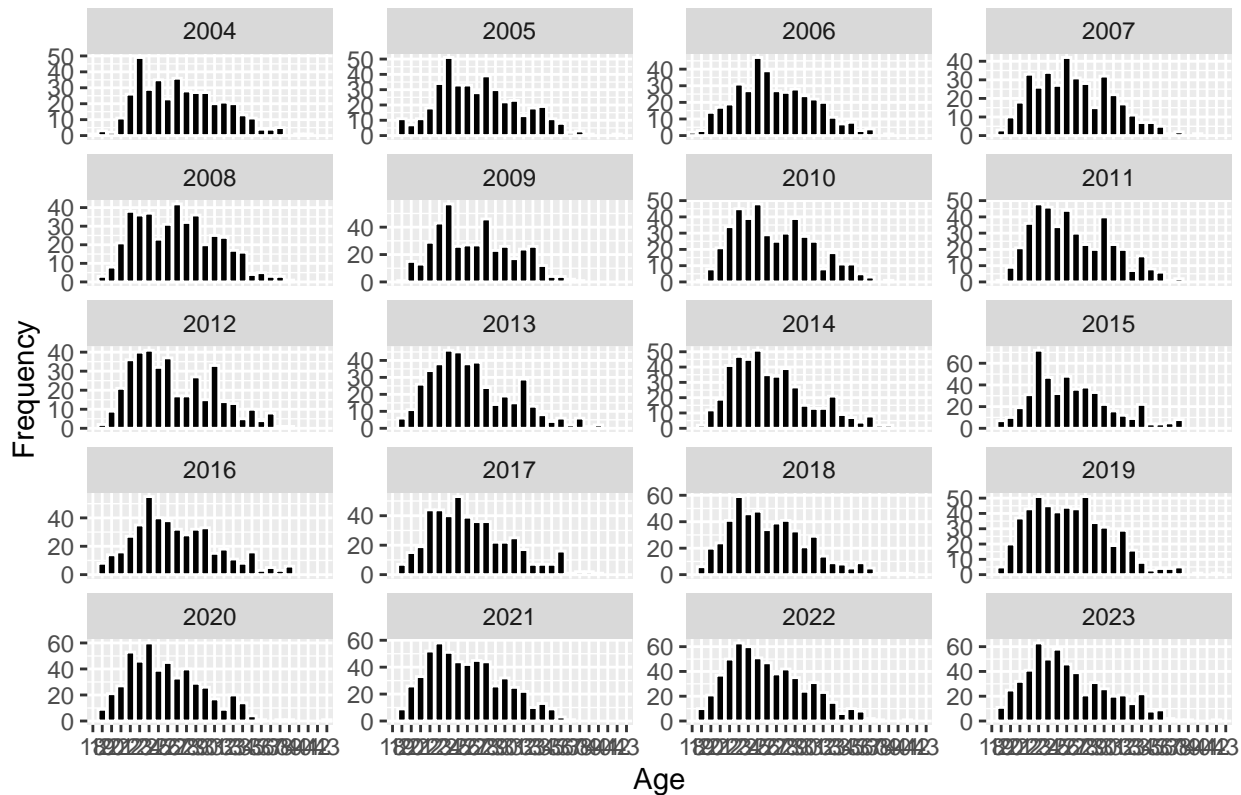
seasons, such as 2016, where 24-26 are the highest frequency ages. I was mostly curious to see if we saw the average age growing over time, but for the most part, the curve slopes down from 23 or 24.

```
player_stats_sals[, .(players = .N), by = age][, age := factor(age)][  
  , ggplot(.SD, aes(age, players)) +  
    geom_col(fill = "black", color = "white") +  
    labs(title = "Player Age Frequency",  
          x = "Age",  
          y = "Frequency")]
```



```
player_stats_sals[, .(players = .N), by = .(season, age)][, age := factor(age)][  
  , ggplot(.SD, aes(age, players, fill = as.factor(age))) +  
    geom_col(fill = "black", color = "white") +  
    facet_wrap(~season, scales = "free_y", ncol = 4) +  
    labs(title = "Player Age Frequency by Season",  
          x = "Age",  
          y = "Frequency")]
```

Player Age Frequency by Season

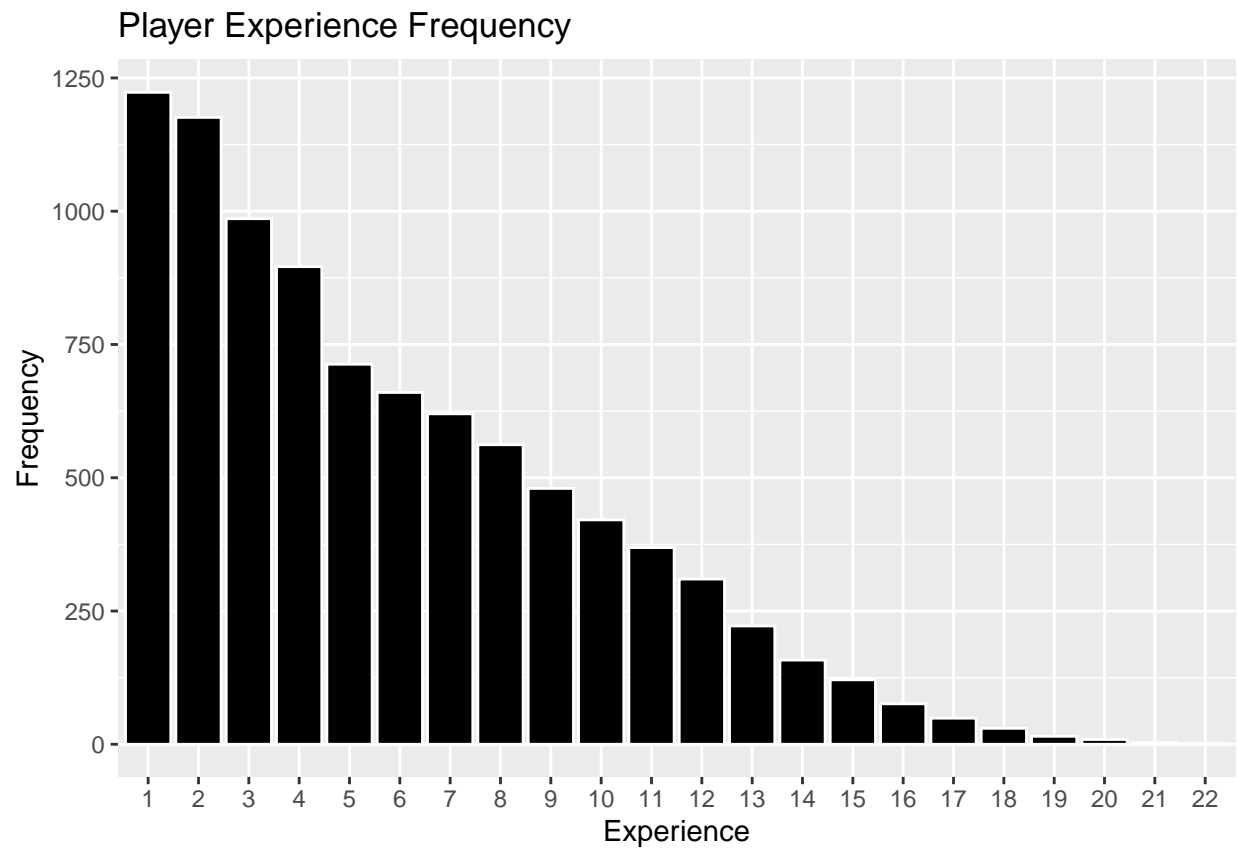


```
describe(player_stats_sals[, c('age')], fast=TRUE)
```

```
##      vars      n  mean   sd min max range  se
## age      1 9100 26.57 4.21  18  43   25 0.04
```

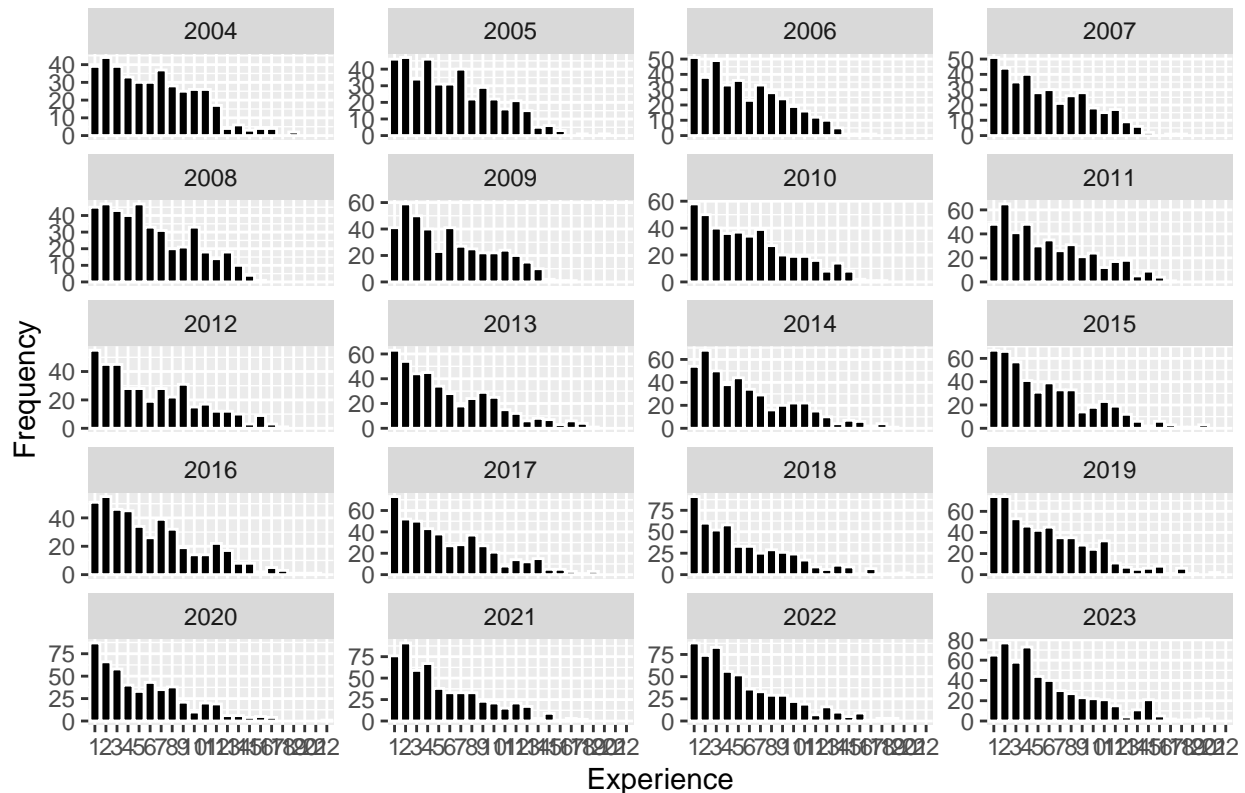
Experience Another demographic stat I was interested in was experience. Experience represents how many years a player has played in the NBA in this data set. It is not surprising that 1 year has the highest frequency. There are many players that get drafted, but then do not remain in the NBA for a variety of reasons. When broken down by season, the experience curves look similar in that they generally peak at 1 or 2 years and then slope down from there. However, there are definitely years where the NBA is more veteran heavy, like 2019.

```
player_stats_sals[, .(players = .N), by = experience][, experience := factor(experience)][
  , ggplot(.SD, aes(experience, players)) +
  geom_col(fill = "black", color = "white") +
  labs(title = "Player Experience Frequency",
        x = "Experience",
        y = "Frequency")]
```



```
player_stats_sals[, .(players = .N), by = .(season, experience)][, experience := factor(experience)][  
  , ggplot(.SD, aes(experience, players, fill = as.factor(experience))) +  
    geom_col(fill = "black", color = "white") +  
    facet_wrap(~season, scales = "free_y", ncol = 4) +  
    labs(title = "Player Experience Frequency by Season",  
          x = "Experience",  
          y = "Frequency")]
```

Player Experience Frequency by Season



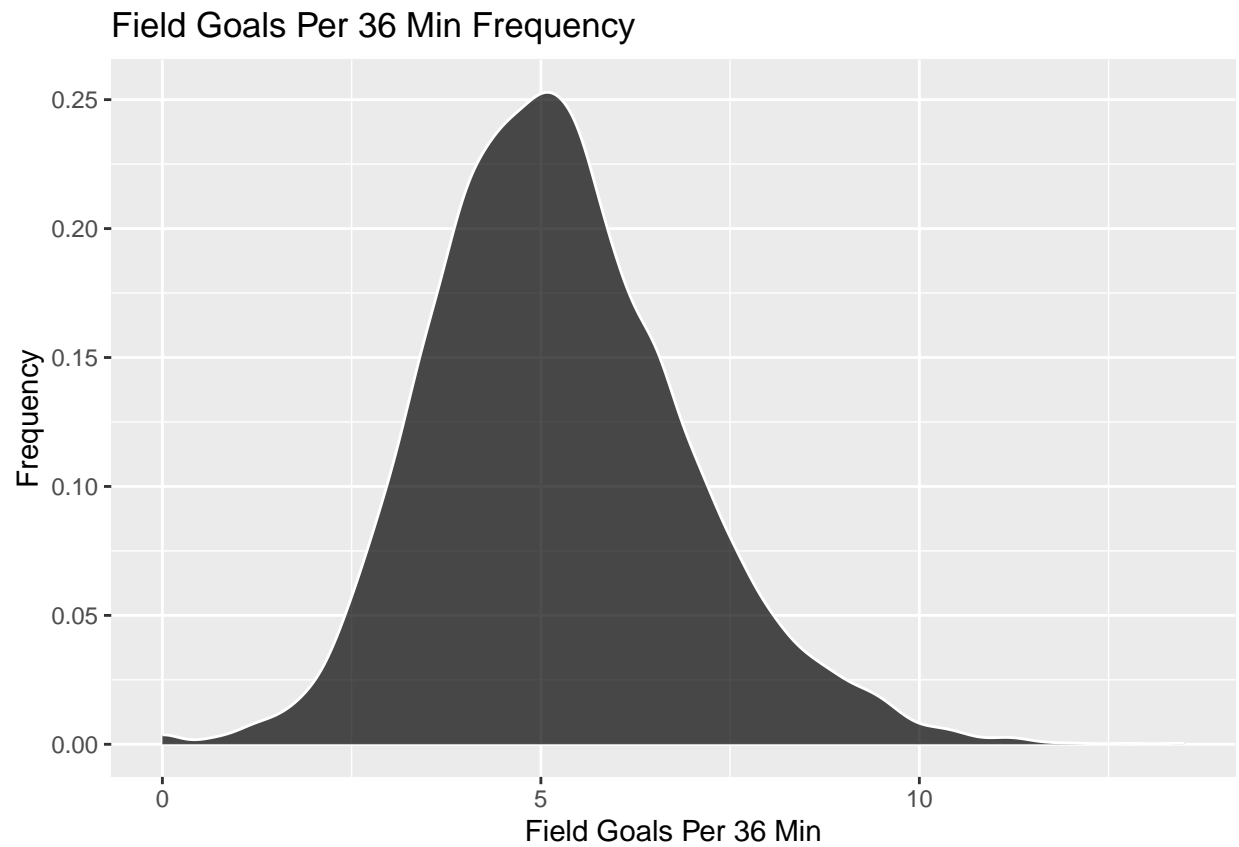
```
describe(player_stats_sals [ , c('experience')], fast=TRUE)
```

```
##           vars      n mean   sd min max range   se
## experience      1 9100 5.81 4.07  1  22    21 0.04
```

I looked at other demographic stats, but thought these two were the most interesting to share.

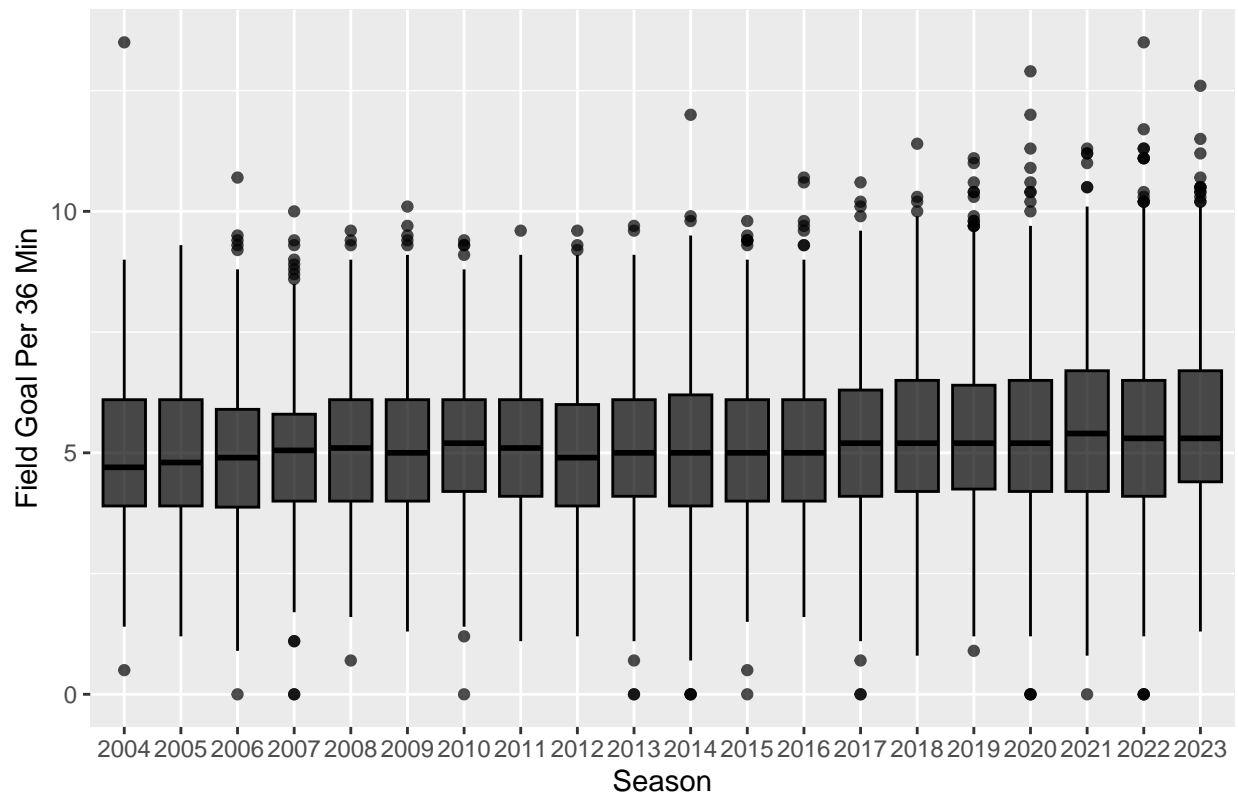
FG per 36 Minutes Next, I explored the per 36 minutes stats. I started with field goals, which includes both 2 point and 3 point field goals, per 36 minutes. When looking at all seasons combined, slightly above 5 was the highest frequency. I was curious if field goals per 36 min had gone up over time, but when plotting box plots by season, we can see the mean has gone up slightly, but all of the interquartile ranges overlap, so there hasn't been a large, meaningful shift.

```
player_stats_sals[, .(fg_per_36_min)] %>%
  ggplot(aes(x = fg_per_36_min)) +
  geom_density(fill = "black", color = "white", alpha = 0.7) +
  labs(title = "Field Goals Per 36 Min Frequency",
       x = "Field Goals Per 36 Min",
       y = "Frequency")
```



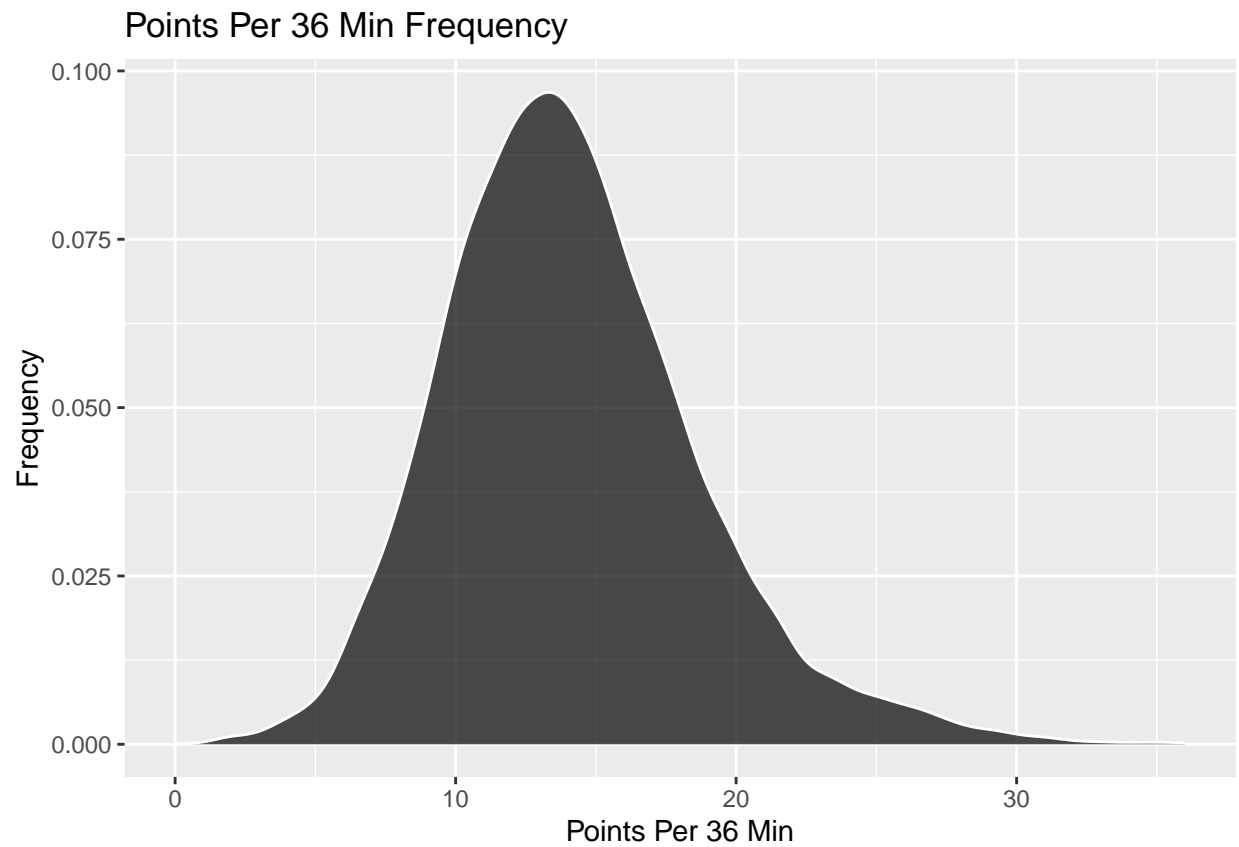
```
player_stats_sals[, season := factor(season)][  
  , ggplot(.SD, aes(x = season, y = fg_per_36_min)) +  
    geom_boxplot(fill = "black", color = "black", alpha = 0.7) +  
    labs(title = "Field Goals Per 36 Min by Season",  
         x = "Season",  
         y = "Field Goal Per 36 Min")]
```

Field Goals Per 36 Min by Season

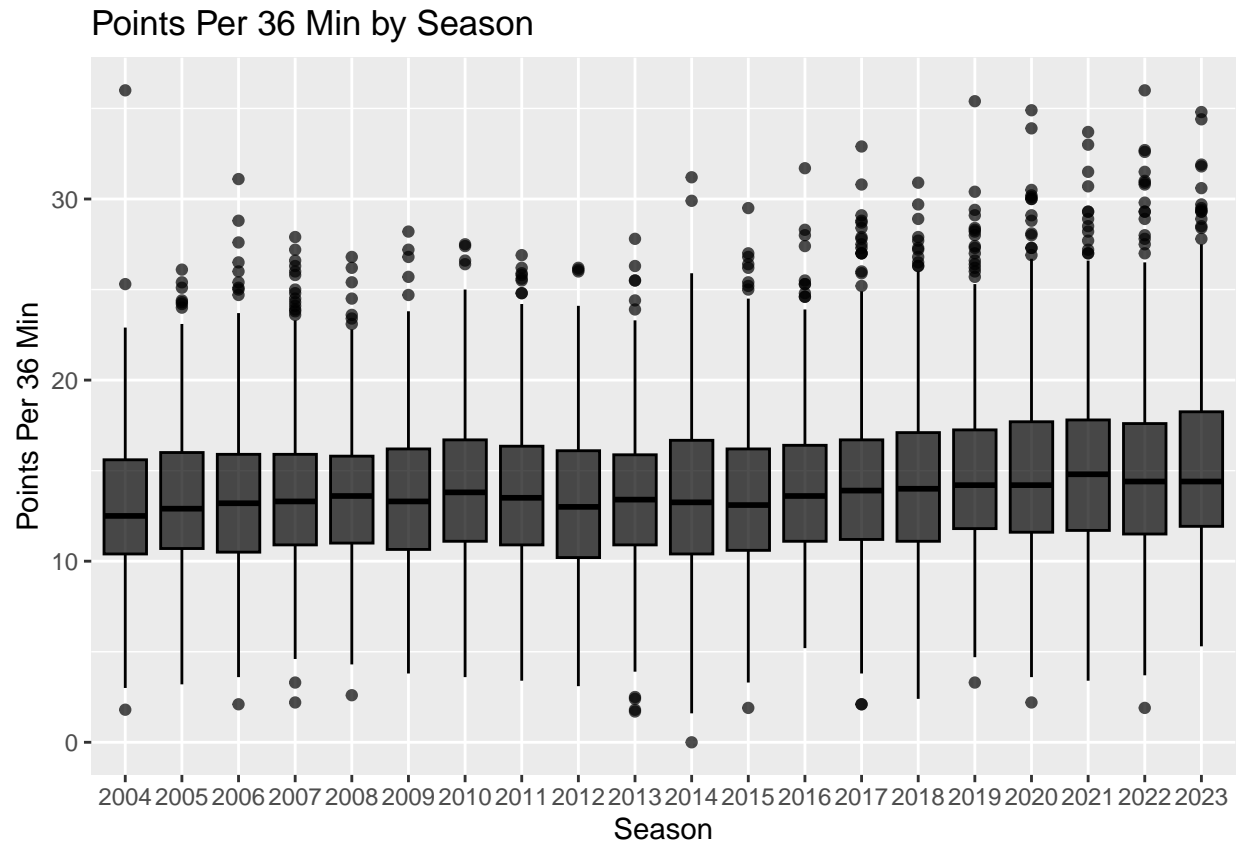


Pts per 36 Minutes I explored all of the per 36 minutes stats, but I also wanted to share points per 36 minutes. This stat is very similar to the FG per 36 minutes, but instead of the count of field goals, it is the point totals, so the sum of the 2 point and 3 point field goals per 36 minutes. When looking at all seasons combined, around 13 points is the highest frequency. When broken out by season, similar to field goals per 36 minutes, we see the mean generally going up, but again the interquartile ranges are overlapping.

```
player_stats_sals[, .(pts_per_36_min)] %>%
  ggplot(aes(x = pts_per_36_min)) +
  geom_density(fill = "black", color = "white", alpha = 0.7) +
  labs(title = "Points Per 36 Min Frequency",
       x = "Points Per 36 Min",
       y = "Frequency")
```



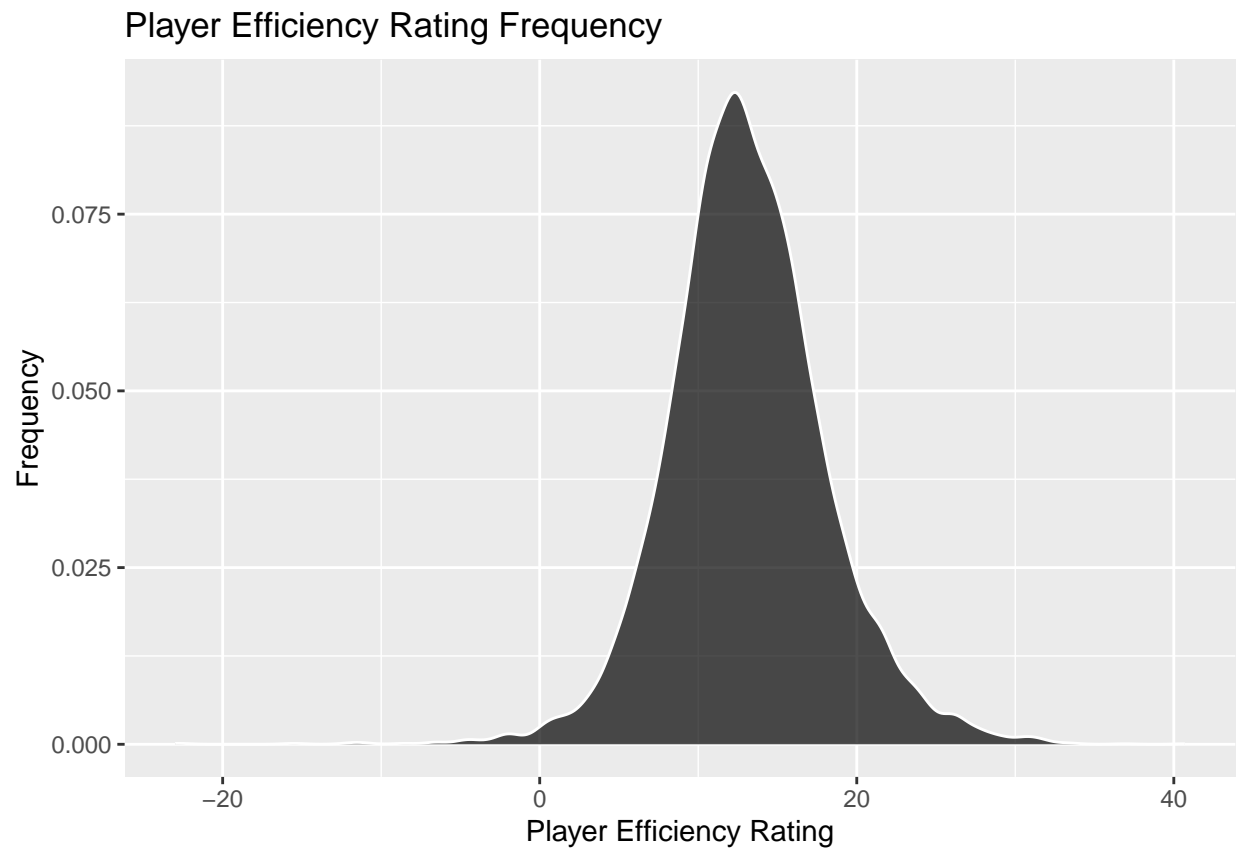
```
player_stats_sals[, season := factor(season)][  
  , ggplot(.SD, aes(x = season, y = pts_per_36_min)) +  
    geom_boxplot(fill = "black", color = "black", alpha = 0.7) +  
    labs(title = "Points Per 36 Min by Season",  
         x = "Season",  
         y = "Points Per 36 Min")]
```



I looked at other per 36 minute stats, but wanted to share these as they were found to have a high correlation with salary, which will be important for our model later.

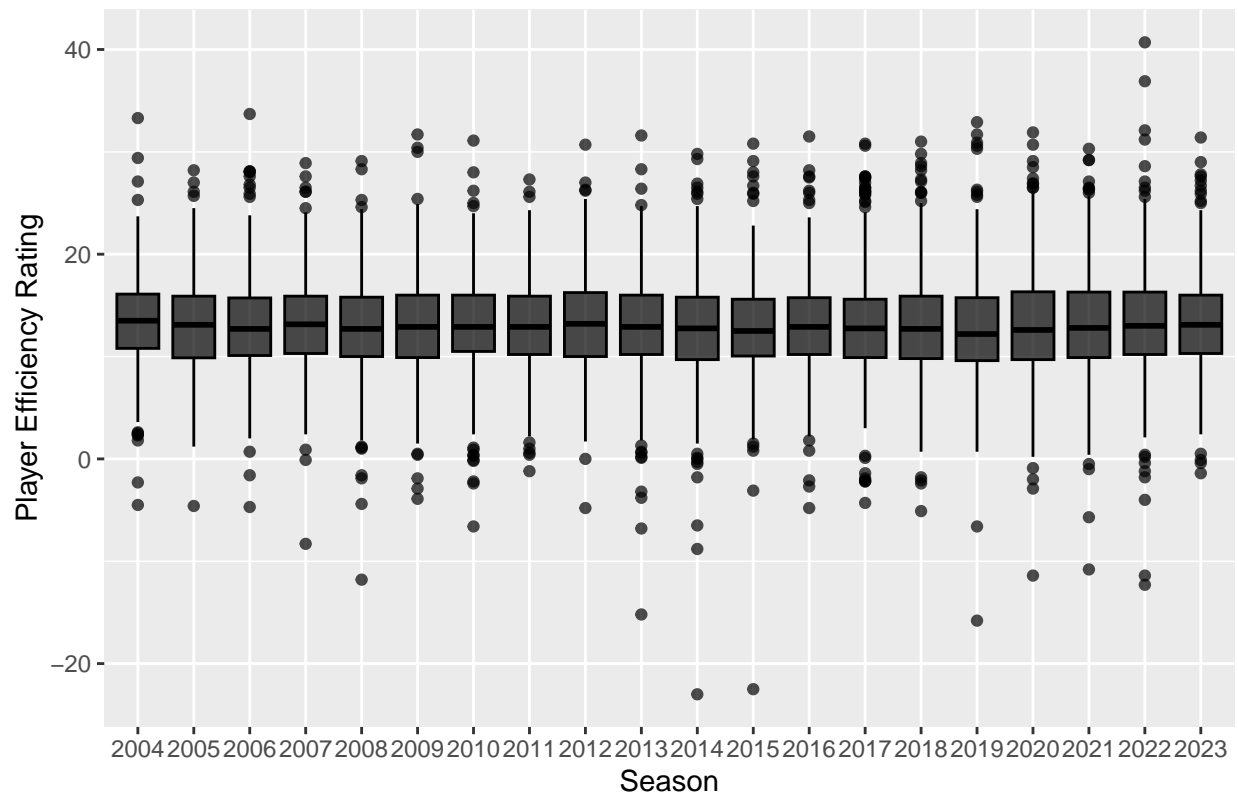
Player Efficiency Rating (PER) Next, I explored the advanced stats. Similar to the per 36 minute stats, I was interested in how the whole data set looked as well as when breaking it out by season. The first advanced stat I looked at was PER. This stat was developed by John Hollinger and is said to sum up all a player's positive accomplishments, subtracts the negative accomplishments, and returns a per-minute rating of a player's performance. The mean PER is slightly above 13. When we break this stat out by season, we see the interquartile range and mean have stayed incredibly static, which means this stat is very helpful in comparing players across seasons.

```
player_stats_sals[, .(per)] %>%
  ggplot(aes(x = per)) +
  geom_density(fill = "black", color = "white", alpha = 0.7) +
  labs(title = "Player Efficiency Rating Frequency",
       x = "Player Efficiency Rating",
       y = "Frequency")
```

```
player_stats_sals[, season := factor(season)][  
  , ggplot(.SD, aes(x = season, y = per)) +  
    geom_boxplot(fill = "black", color = "black", alpha = 0.7) +  
    labs(title = "Player Efficiency Rating by Season",  
         x = "Season",  
         y = "Player Efficiency Rating")]
```

Player Efficiency Rating by Season

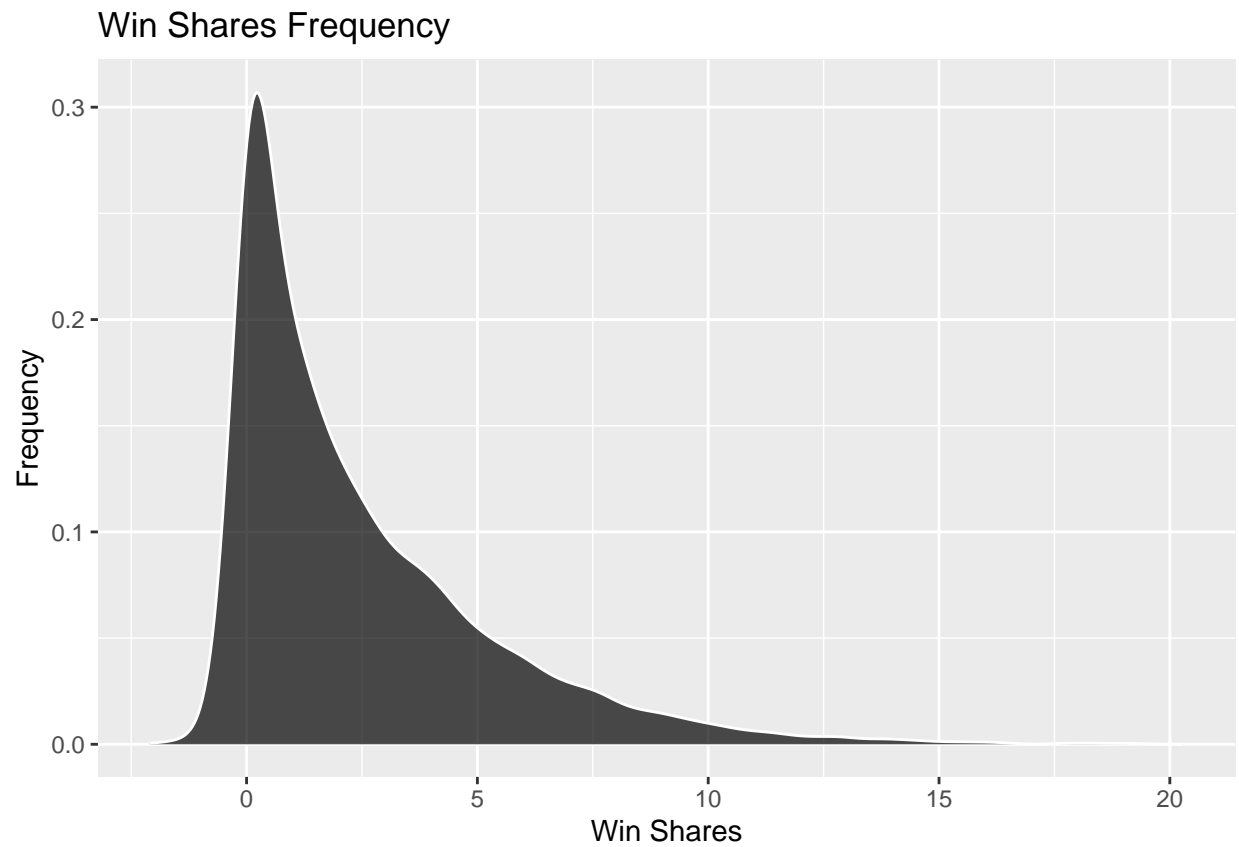


```
describe(player_stats_sals[, c('per')], fast=TRUE)
```

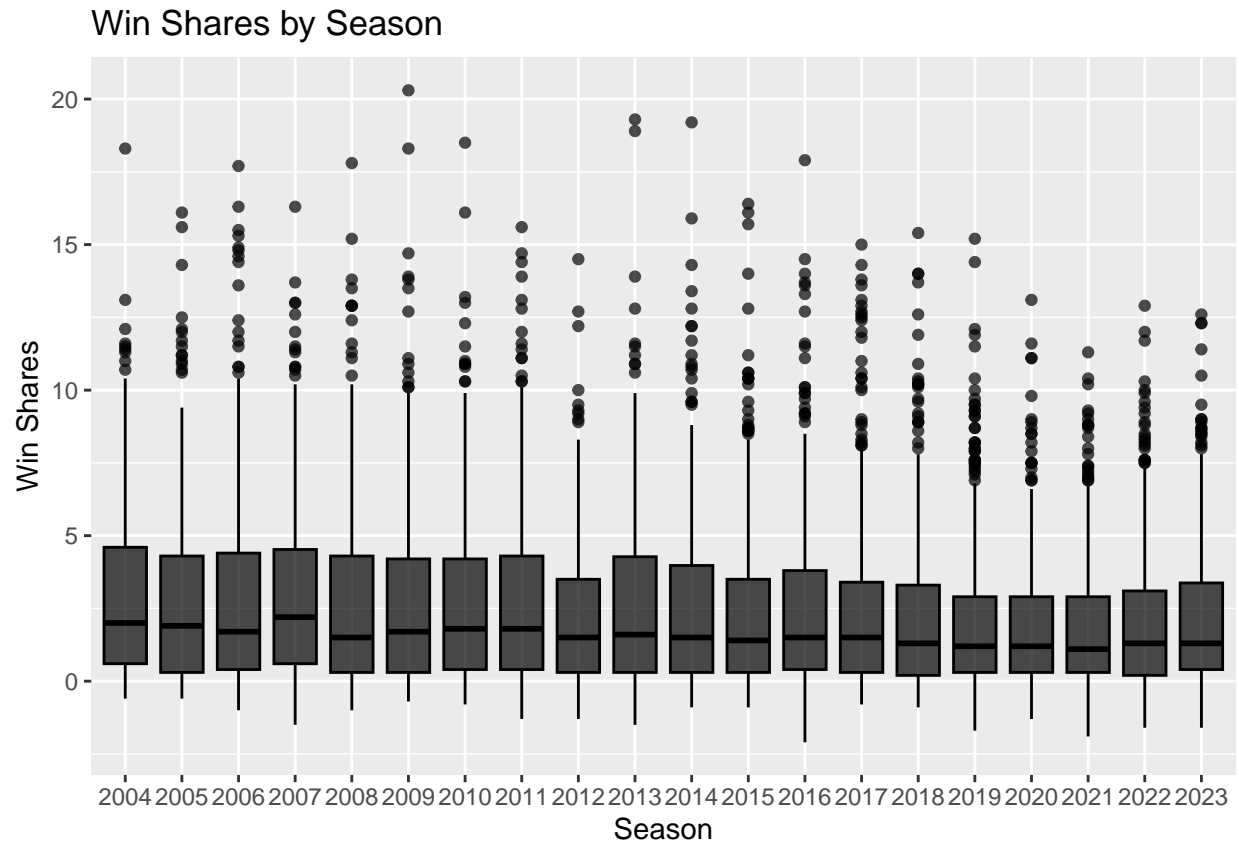
```
##      vars      n  mean   sd min  max range  se
## per      1 9100 13.07 4.99 -23 40.7  63.7 0.05
```

Win Shares (WS) Another advanced stat I explored was win shares. Win shares is an estimate of the number of wins contributed by a player. This stat is biased towards players that play more minutes, but you would also expect those players to have a higher salary. The mean win share is 2.44. This stat has stayed fairly static over the seasons, so this is another good way to compare players across seasons.

```
player_stats_sals[, .(ws)] %>%
  ggplot(aes(x = ws)) +
  geom_density(fill = "black", color = "white", alpha = 0.7) +
  labs(title = "Win Shares Frequency",
       x = "Win Shares",
       y = "Frequency")
```



```
player_stats_sals[, season := factor(season)][  
  , ggplot(.SD, aes(x = season, y = ws)) +  
    geom_boxplot(fill = "black", color = "black", alpha = 0.7) +  
    labs(title = "Win Shares by Season",  
         x = "Season",  
         y = "Win Shares")]
```

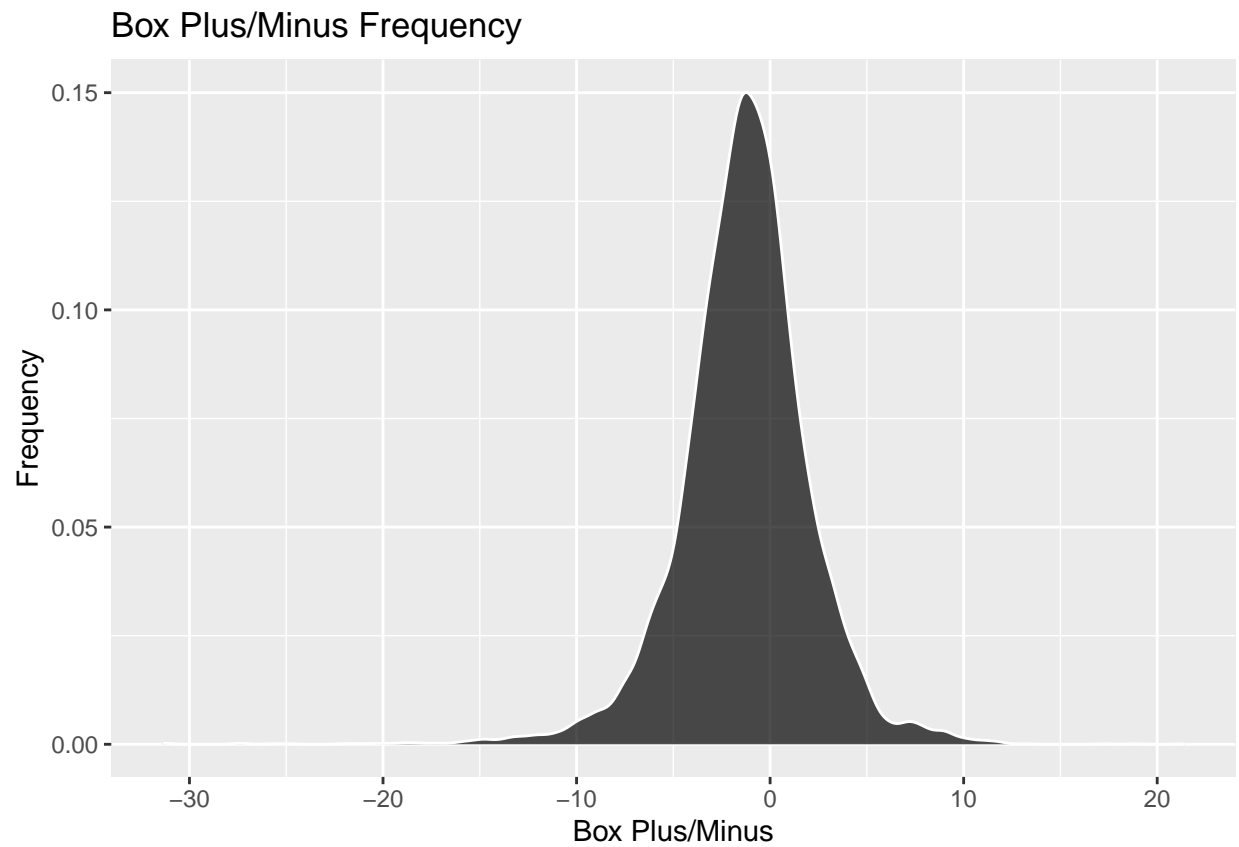


```
describe(player_stats_sals [ , c('ws')], fast=TRUE)
```

```
##      vars      n mean   sd  min  max range   se
## ws       1 9100  2.44  2.81 -2.1 20.3  22.4 0.03
```

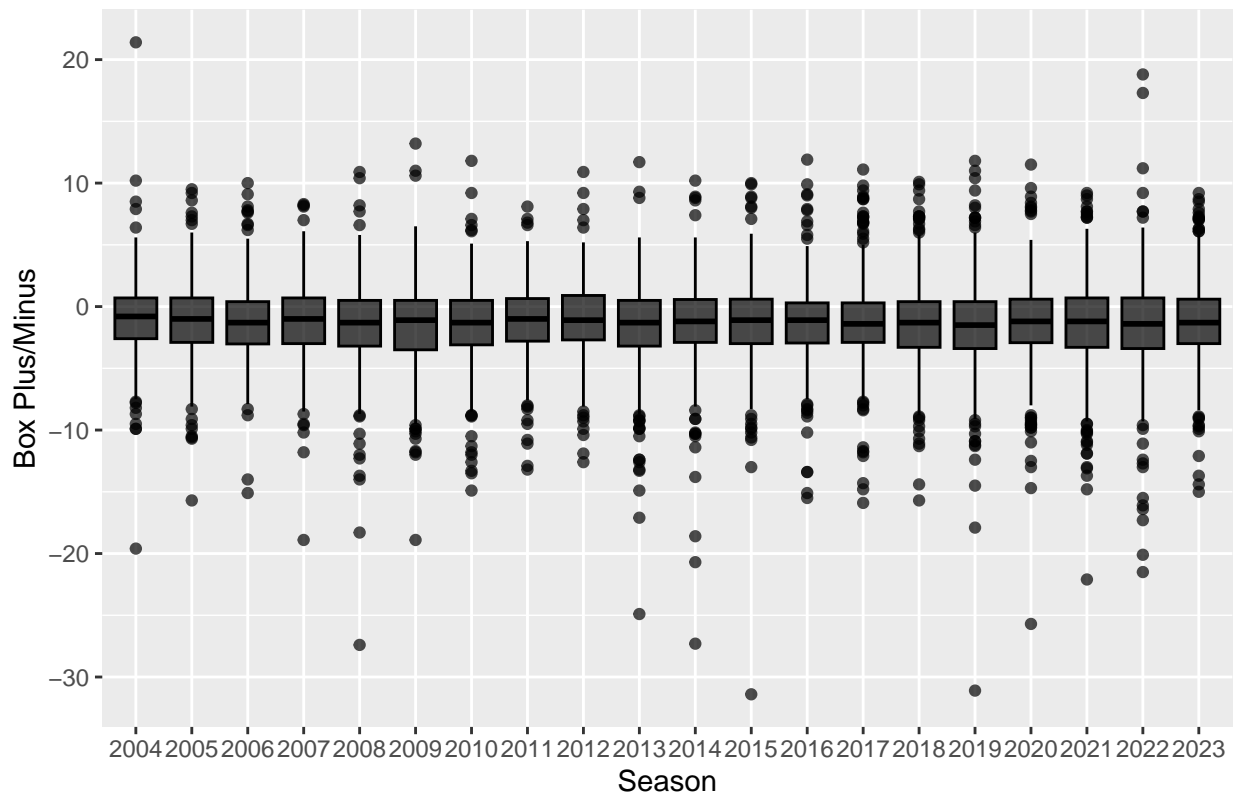
Box Plus/Minus (BPM) Box Plus/Minus is a box score estimate of the points per 100 possessions that a player contributed above a league-average player, translated to an average team. The mean BPM is -1.3, meaning most players contribute less than the league-average player. This makes sense when you think about that rosters have around 15 players, but only 5 can play at a time. Similar to PER and WS, BPM is very static season to season, meaning it is another good way to compare players across seasons.

```
player_stats_sals[, .(bpm)] %>%
  ggplot(aes(x = bpm)) +
  geom_density(fill = "black", color = "white", alpha = 0.7) +
  labs(title = "Box Plus/Minus Frequency",
       x = "Box Plus/Minus",
       y = "Frequency")
```



```
player_stats_sals[, season := factor(season)][  
  , ggplot(.SD, aes(x = season, y = bpm)) +  
    geom_boxplot(fill = "black", color = "black", alpha = 0.7) +  
    labs(title = "Box Plus/Minus by Season",  
         x = "Season",  
         y = "Box Plus/Minus")]
```

Box Plus/Minus by Season

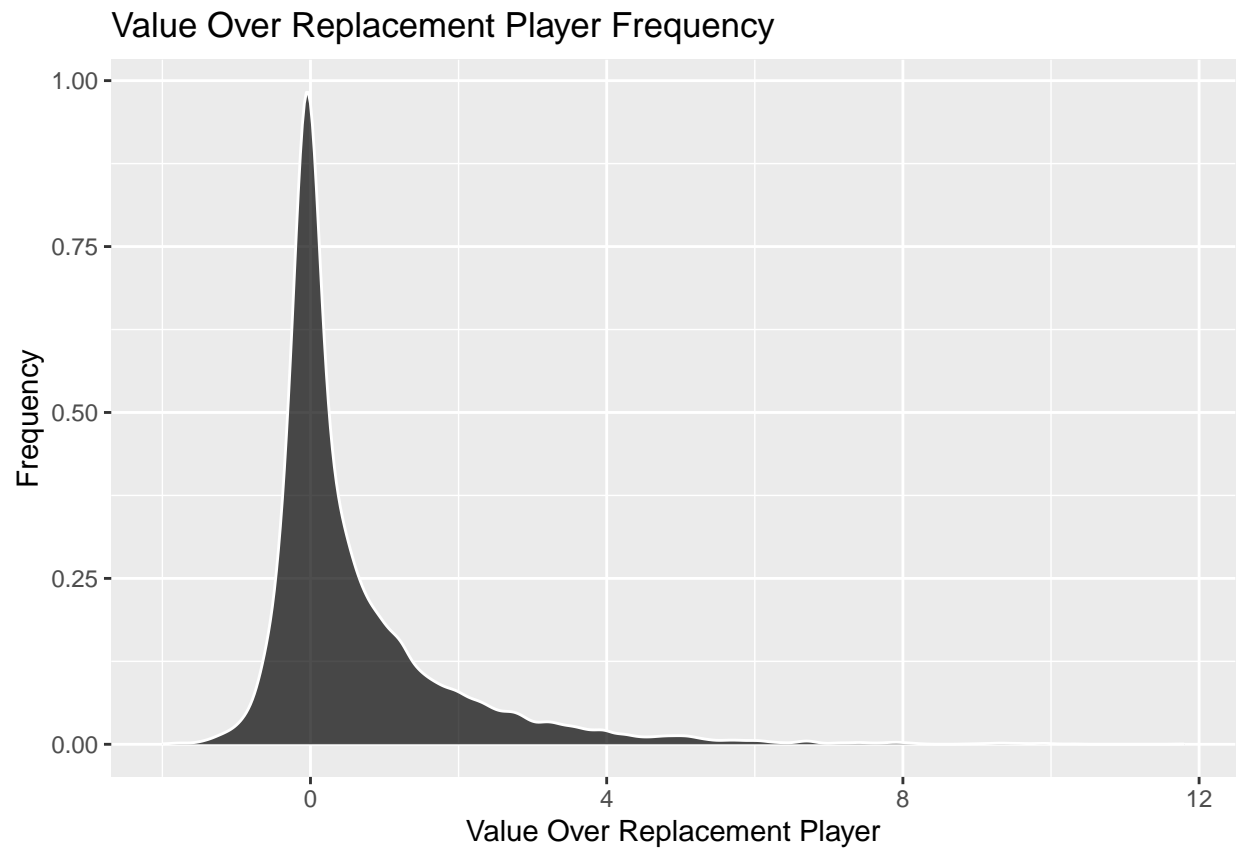


```
describe(player_stats_sals [ , c('bpm')], fast=TRUE)
```

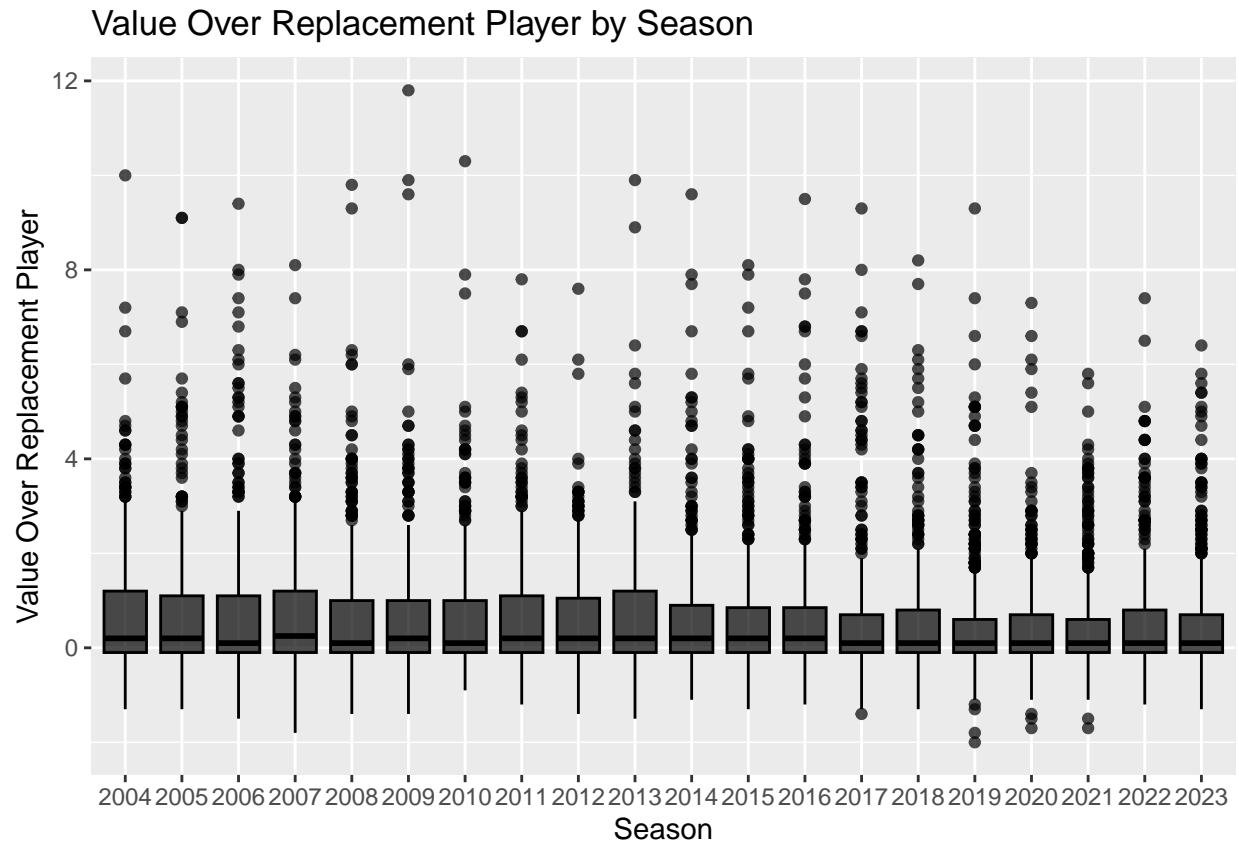
```
##      vars      n mean  sd   min  max range   se
## bpm       1 9100 -1.3 3.41 -31.4 21.4  52.8 0.04
```

Value Over Replacement Player (VORP) Value over replacement player is a box score estimate of the points per 100 team possessions that a player contributed a replacement-level, -2.0, player, translated to an average team and prorated to an 82-game season. The mean VORP is 0.6. Similar to the other advanced stats, VORP is very consistent season to season making it another good season to season comparison for players.

```
player_stats_sals[, .(vorp)] %>%
  ggplot(aes(x = vorp)) +
  geom_density(fill = "black", color = "white", alpha = 0.7) +
  labs(title = "Value Over Replacement Player Frequency",
       x = "Value Over Replacement Player",
       y = "Frequency")
```



```
player_stats_sals[, season := factor(season)][  
  , ggplot(.SD, aes(x = season, y = vorp)) +  
    geom_boxplot(fill = "black", color = "black", alpha = 0.7) +  
    labs(title = "Value Over Replacement Player by Season",  
         x = "Season",  
         y = "Value Over Replacement Player")]
```

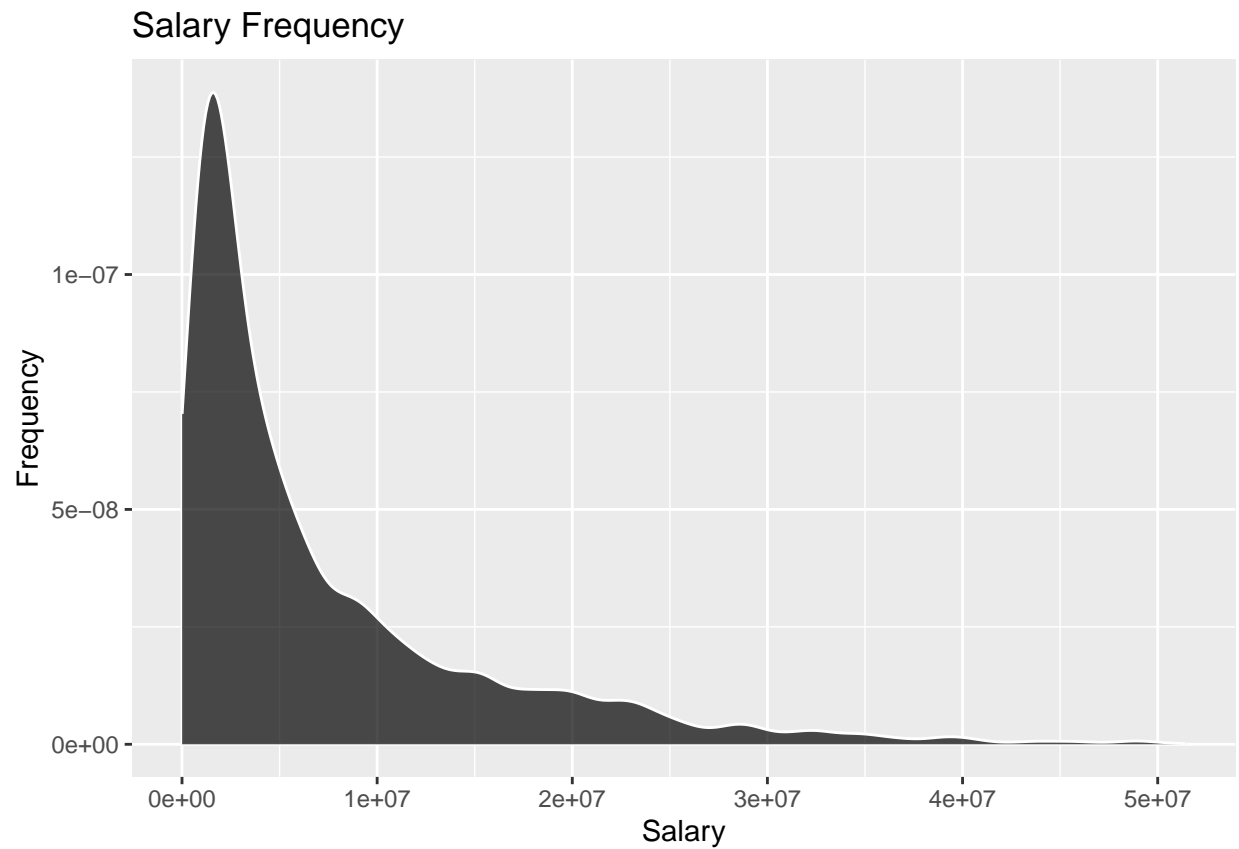


```
describe(player_stats_sals [ , c('vorp')], fast=TRUE)
```

```
##      vars      n mean  sd min  max range  se
## vorp      1 9100  0.6 1.29  -2 11.8  13.8 0.01
```

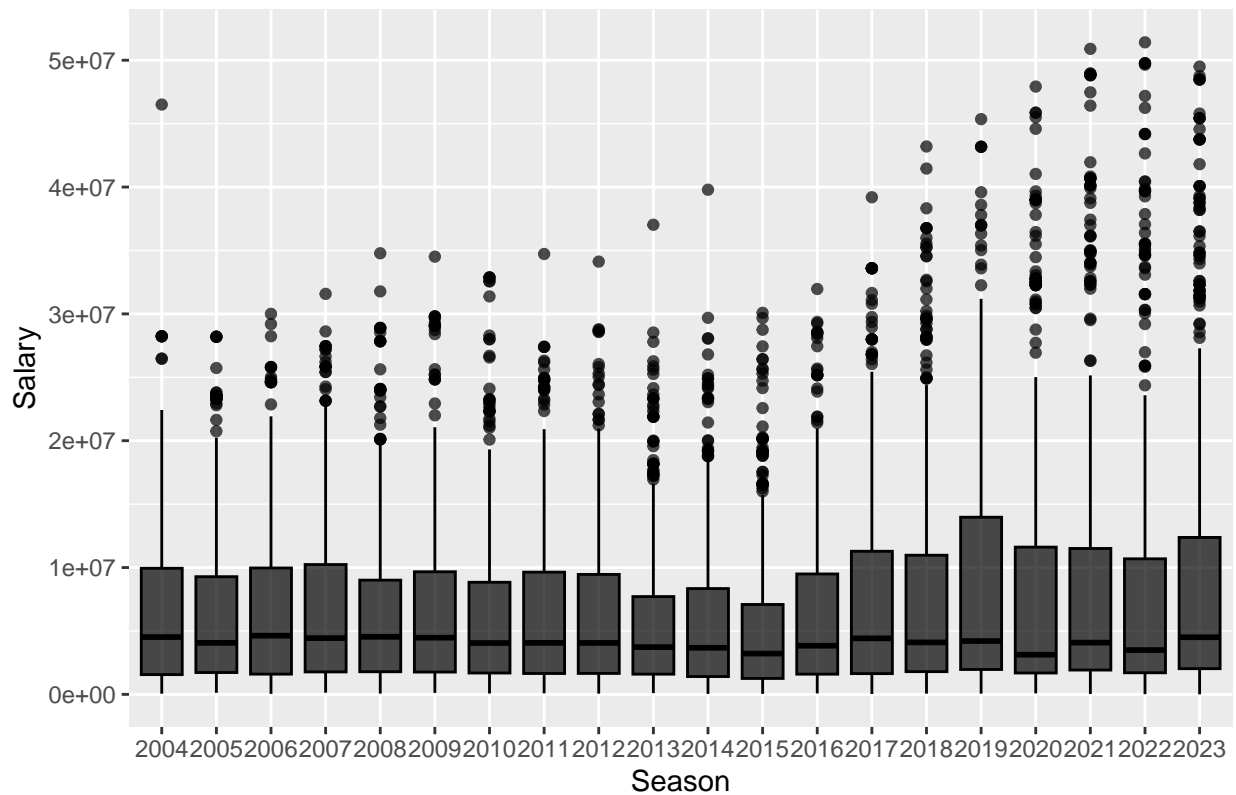
Salary Finally, salary is what we want our model to predict based on all the other performance measures available to us. The mean salary is \$7,331,112 with a standard deviation of \$8,307,602. Our aim will be to create a model that has a lower RMSE than the standard deviation. When we look at salary over the seasons, it is clear that the largest salaries have continued to grow, but generally the mean pay in the NBA is similar.

```
player_stats_sals[, .(salary)] %>%
  ggplot(aes(x = salary)) +
  geom_density(fill = "black", color = "white", alpha = 0.7) +
  labs(title = "Salary Frequency",
       x = "Salary",
       y = "Frequency")
```

```
player_stats_sals[, season := factor(season)][  
  , ggplot(.SD, aes(x = season, y = salary)) +  
    geom_boxplot(fill = "black", color = "black", alpha = 0.7) +  
    labs(title = "Salary by Season",  
         x = "Season",  
         y = "Salary")]
```

Salary by Season



```
describe(player_stats_sals [ , c('salary')], fast=TRUE)
```

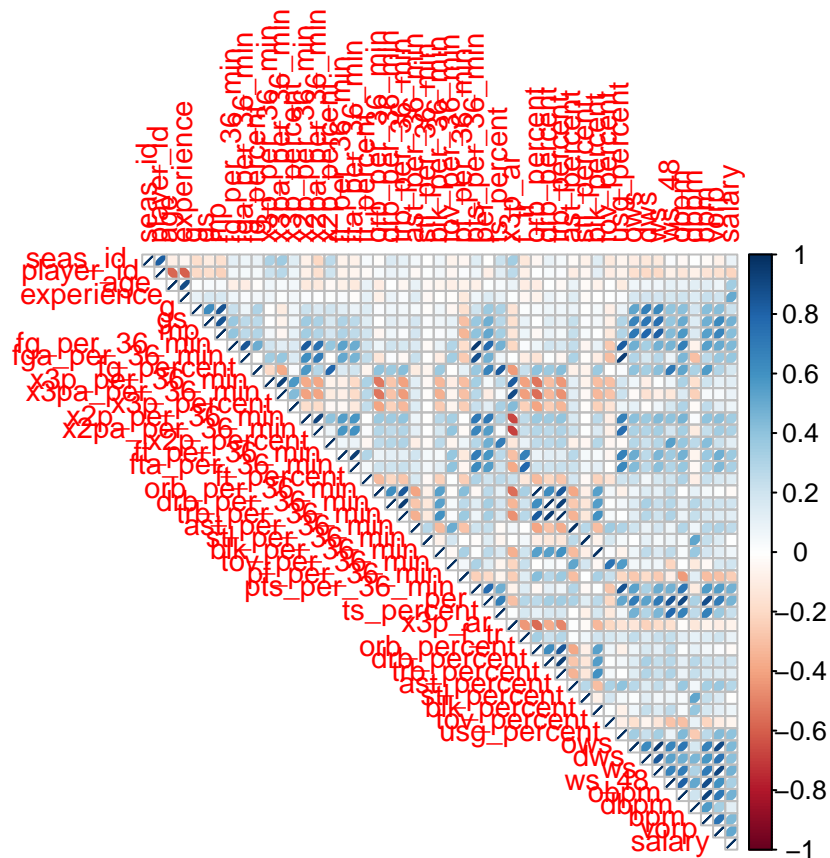
```
##      vars      n    mean      sd  min      max    range      se
## salary      1  9100 7331112 8307602 6022 51411079 51405057 87087.33
```

Correlation Plot

My final exploration of the data was a correlation plot. I wanted to understand how the variables related to one another and which ones were highly correlated with salary. To do so, I needed remove any non-numeric variables from my data set. Once I had my correlation plot, I was able to sort the row for salary by correlation coefficient value so I could easily see which stats had the highest correlation coefficients.

```
#remove non-numeric variables for corrrplot
num_player_stats_sals <- player_stats_sals %>% select (-player, -season, -pos, -lg, -tm)

cor_matrix <- cor(num_player_stats_sals)
corrrplot(cor_matrix, type = "upper", method = "ellipse", tl.cex = 0.9)
```



```
#correlation coefficients for salary sorted by correlation
sort(cor_matrix[49, ], decreasing = TRUE)
```

##	salary	vorp	experience	ws	obpm
##	1.0000000000	0.5112805738	0.5014764349	0.4755196332	0.4722737898
##	gs	pts_per_36_min	per	bpm	fg_per_36_min
##	0.4722584784	0.4701840158	0.4604772245	0.4453742110	0.4414914009
##	ows	mp	dws	usg_percent	fga_per_36_min
##	0.4407920694	0.4246954893	0.4187531453	0.4018556815	0.3846444100
##	ft_per_36_min	x2p_per_36_min	age	fta_per_36_min	ws_48
##	0.3660962386	0.3489966362	0.3429204278	0.3277514390	0.3207421937
##	x2pa_per_36_min	ast_percent	ast_per_36_min	ts_percent	g
##	0.3180887325	0.2889918267	0.2513940104	0.2214915231	0.2164337586
##	drb_per_36_min	tov_per_36_min	drb_percent	fg_percent	ft_percent
##	0.1976661229	0.1908972701	0.1906237916	0.1774116677	0.1398023495
##	x2p_percent	trb_per_36_min	trb_percent	x3p_per_36_min	dbpm
##	0.1278543799	0.1252018906	0.1228872021	0.1227862792	0.1220583528
##	f_tr	x3pa_per_36_min	seas_id	x3p_percent	blk_percent
##	0.0967671498	0.0826467954	0.0819065185	0.0746541112	0.0731183293
##	blk_per_36_min	stl_per_36_min	stl_percent	orb_percent	orb_per_36_min
##	0.0693076257	0.0080713696	-0.0005808076	-0.0202072144	-0.0216753709
##	tov_percent	x3p_ar	player_id	pf_per_36_min	
##	-0.0549749661	-0.0656133545	-0.2183659627	-0.2450236576	

The top 10 correlation coefficients would be the basis for my first model.

Models

Before starting on my models, I split my data into train and test with a 80/20 split. I chose 80/20 because I wanted a good amount of my data for training to prevent overfitting. It also allows for enough data available in test to understand how the model performs on unseen data.

```
set.seed(1991)
split_index <- createDataPartition(player_stats_sals$salary, p = 0.8, list = FALSE)
train <- player_stats_sals[split_index, ]
test <- player_stats_sals[-split_index, ]
```

I decided I would create two different models: a more simple linear model based on the top 10 correlation coefficients from our previous correlation plot, and a random forest model that took into account all of the available stats. Many of the available stats have high colinearity, so I thought by limiting to the top 10 for the linear model, we might see decent performance without going too deep. However, I also wanted to use all the available data as well, which is why I landed on a random forest model.

Below is the code to produce the linear model as well as the code I used to calculate RMSE for it.

```
linearm <- lm(salary ~ vorp + experience + ws + obpm + gs + pts_per_36_min + per + bpm + fg_per_36_min +
summary(linearm)
```

```
##
## Call:
## lm(formula = salary ~ vorp + experience + ws + obpm + gs + pts_per_36_min +
##     per + bpm + fg_per_36_min + ows, data = as.data.frame(train))
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -20850185  -3148862  -340800   2238800  35789749
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -8212098     549496  -14.945 < 2e-16 ***
## vorp          2259315     148335   15.231 < 2e-16 ***
## experience     860795      17001   50.632 < 2e-16 ***
## ws           -251203     113945   -2.205  0.02751 *
## obpm          -240902      92035   -2.618  0.00888 **
## gs             80165       3969   20.198 < 2e-16 ***
## pts_per_36_min  672761     56425   11.923 < 2e-16 ***
## per           71335      45178    1.579  0.11438
## bpm           15126      77417    0.195  0.84510
## fg_per_36_min  -376886     148352   -2.540  0.01109 *
## ows          -694991     135685   -5.122  3.1e-07 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 5670000 on 7269 degrees of freedom
## Multiple R-squared:  0.5317, Adjusted R-squared:  0.531
## F-statistic: 825.2 on 10 and 7269 DF, p-value: < 2.2e-16
```

```
lm_sal_prediction <- predict(linearm, newdata = test)
res <- test$salary - lm_sal_prediction
```

```
lm_rmse <- sqrt(mean(res^2))
print(lm_rmse)
```

```
## [1] 5898771
```

The linear model using the top 10 correlation coefficients had a RMSE of \$5,898,770, which is less than standard deviation of salaries in the data set.

I also created a table that contained the actual salary of a player, the predicted salary from the model, the difference between those two, as well as the player's name, the season, and the team the player was on. The table can be seen below.

```
lm_results <- data.frame(
  true_sal = test$salary,
  modeled_sal = lm_sal_prediction,
  sal_diff = test$salary - lm_sal_prediction,
  player = test$player,
  season = test$season,
  team = test$tm
)

print(lm_results)
```

##	true_sal	modeled_sal	sal_diff	player	season	team
## 1	3641154	2638469.172	1002684.828	AJ Griffin	2023	ATL
## 2	1582204	12387107.213	-10804903.213	Aaron Brooks	2010	HOU
## 3	7645075	5100646.489	2544428.511	Aaron Brooks	2013	SAC
## 4	6856148	12204916.743	-5348768.743	Aaron Gordon	2018	ORL
## 5	8304545	11944504.966	-3639959.966	Aaron McKie	2004	PHI
## 6	3917318	6344175.194	-2426857.194	Aaron Nesmith	2023	IND
## 7	2822000	-1511289.430	4333289.430	Acie Law	2008	ATL
## 8	531538	81410.652	450127.348	Adam Mokoka	2021	CHI
## 9	5799462	-740445.893	6539907.893	Adam Morrison	2009	LAL
## 10	812745	134880.826	677864.174	Admiral Schofield	2022	ORL
## 11	2375042	-106061.665	2481103.665	Adreian Payne	2015	MIN
## 12	1205875	6371895.107	-5166020.107	Adrian Griffin	2006	DAL
## 13	9454725	6589741.207	2864983.793	Al Harrington	2004	IND
## 14	10172980	11776037.470	-1603057.470	Al Harrington	2005	ATL
## 15	11466023	15340686.830	-3874663.830	Al Harrington	2007	TOT
## 16	8069889	12297944.828	-4228055.828	Al Harrington	2011	DEN
## 17	5485319	3795795.167	1689523.833	Al Horford	2008	ATL
## 18	5614736	7271514.770	-1656778.770	Al Horford	2009	ATL
## 19	15679851	12423830.988	3256020.012	Al Horford	2014	ATL
## 20	15342518	18855206.701	-3512688.701	Al Horford	2016	ATL
## 21	33597587	17458854.958	16138732.042	Al Horford	2017	BOS
## 22	33352666	17781366.445	15571299.555	Al Horford	2020	PHI
## 23	17639832	21448120.179	-3808288.179	Al Jefferson	2014	CHA
## 24	2687932	3870612.854	-1182680.854	Al Thornton	2010	WAS
## 25	10283188	11951698.043	-1668510.043	Al-Farouq Aminu	2016	POR
## 26	9723471	7311590.794	2411880.206	Al-Farouq Aminu	2017	POR
## 27	9116382	12359985.918	-3243603.918	Al-Farouq Aminu	2018	POR
## 28	11504920	8450235.299	3054684.701	Al-Farouq Aminu	2021	TOT
## 29	1364696	2669374.974	-1304678.974	Alando Tucker	2008	PHO

## 30	4098154	5734394.184	-1636240.184	Alec Burks	2015	UTA
## 31	12538277	6566086.993	5972190.007	Alec Burks	2017	UTA
## 32	13968445	9450226.952	4518218.048	Alec Burks	2019	TOT
## 33	13968445	9087589.879	4880855.121	Alec Burks	2019	CLE
## 34	13968445	3380134.217	10588310.783	Alec Burks	2019	SAC
## 35	7101145	12053209.562	-4952064.562	Alec Burks	2021	NYK
## 36	992117	3110286.500	-2118169.500	Alex Acker	2009	DET
## 37	992117	1027557.833	-35440.833	Alex Acker	2009	LAC
## 38	96220	-1000293.314	1096513.314	Alex Caruso	2018	LAL
## 39	9298116	6905268.294	2392847.706	Alex Caruso	2023	CHI
## 40	4672356	2464181.465	2208174.535	Alex Len	2015	PHO
## 41	4867567	4873747.040	-6180.040	Alex Len	2016	PHO
## 42	4955253	7633800.233	-2678547.233	Alex Len	2020	TOT
## 43	4699357	11028282.115	-6328925.115	Alex Len	2021	TOT
## 44	4699357	4949773.322	-250416.322	Alex Len	2021	TOR
## 45	4699357	11026477.852	-6327120.852	Alex Len	2021	WAS
## 46	4094767	5369807.722	-1275040.722	Alexey Shved	2015	HOU
## 47	735663	4423933.115	-3688270.115	Alize Johnson	2021	BRK
## 48	28196848	11683262.280	16513585.720	Allan Houston	2005	NYK
## 49	1103468	-60688.863	1164156.863	Allen Crabbe	2015	POR
## 50	23419481	1736116.018	21683364.982	Allen Crabbe	2017	POR
## 51	25809750	24874187.203	935562.797	Allen Iverson	2006	PHI
## 52	29059535	12946416.131	16113118.869	Allen Iverson	2009	DEN
## 53	1684985	14555139.873	-12870154.873	Allen Iverson	2010	TOT
## 54	9135000	8115533.736	1019466.264	Alvin Williams	2004	TOR
## 55	625531	3714429.702	-3088898.702	Amir Johnson	2006	DET
## 56	8960879	12026188.554	-3065309.554	Amir Johnson	2015	TOR
## 57	15191014	14746640.297	444373.703	Amir Johnson	2017	BOS
## 58	2898525	12545664.087	-9647139.087	Amir Johnson	2019	PHI
## 59	625531	1309918.294	-684387.294	Andray Blatche	2006	WAS
## 60	998798	938077.227	60720.773	Andray Blatche	2007	WAS
## 61	4243656	11553022.987	-7309366.987	Andray Blatche	2010	WAS
## 62	8707779	6582185.899	2125593.101	Andray Blatche	2012	WAS
## 63	3217505	7087243.710	-3869738.710	Andre Drummond	2014	DET
## 64	32272299	16498061.102	15774237.898	Andre Drummond	2020	TOT
## 65	2696876	12281997.220	-9585121.220	Andre Drummond	2022	TOT
## 66	4107456	17321109.027	-13213653.027	Andre Iguodala	2008	PHI
## 67	15756377	16087713.799	-331336.799	Andre Iguodala	2009	PHI
## 68	19569067	18256723.799	1312343.201	Andre Iguodala	2013	DEN
## 69	16814853	13646339.319	3168513.681	Andre Iguodala	2014	GSW
## 70	12706338	12596483.973	109854.027	Andre Miller	2006	DEN
## 71	13132668	8549046.020	4583621.980	Andre Miller	2007	DEN
## 72	5920581	10989779.246	-5069198.246	Andre Miller	2015	SAC
## 73	1486072	3291434.365	-1805362.365	Andre Roberson	2015	OKC
## 74	1548060	5081412.849	-3533352.849	Andre Roberson	2016	OKC
## 75	7086017	5368110.794	1717906.206	Andrea Bargnani	2008	TOR
## 76	15361508	12297755.741	3063752.259	Andrea Bargnani	2015	NYK
## 77	2688713	12954619.049	-10265906.049	Andrei Kirilenko	2005	UTA
## 78	6808903	5665141.388	1143761.612	Andrew Bogut	2006	MIL
## 79	16220430	7520336.669	8700093.331	Andrew Bogut	2012	MIL
## 80	3053014	4430166.561	-1377152.561	Andrew Bynum	2007	LAL
## 81	429228	1807010.600	-1377782.600	Andrew Harrison	2019	CLE
## 82	2310742	3435411.279	-1124669.279	Andrew Nembhard	2023	IND
## 83	30835818	11925311.565	18910506.435	Andrew Wiggins	2019	MIN

## 84	32762598	15091550.838	17671047.162	Andrew Wiggins	2020	TOT
## 85	32762598	10199268.791	22563329.209	Andrew Wiggins	2020	GSW
## 86	22422272	9102879.443	13319392.557	Anfernee Hardaway	2004	PHO
## 87	4423211	8919749.264	-4496538.264	Anfernee Simons	2022	POR
## 88	1143833	1328151.746	-184318.746	Ansu Sesay	2004	SEA
## 89	21715534	16090157.336	5625376.664	Antawn Jamison	2006	WAS
## 90	1797830	13010860.585	-11213030.585	Antawn Jamison	2013	LAL
## 91	7024259	12535310.701	-5511051.701	Anthony Davis	2014	NOP
## 92	7177972	18108835.072	-10930863.072	Anthony Davis	2015	NOP
## 93	11505462	14333355.656	-2827893.656	Anthony Edwards	2022	MIN
## 94	1890606	915226.376	975379.624	Anthony Gill	2023	WAS
## 95	3796214	11666948.728	-7870734.728	Anthony Johnson	2006	IND
## 96	3969875	6223704.535	-2253829.535	Anthony Johnson	2007	DAL
## 97	616470	1922956.155	-1306486.155	Anthony Morrow	2009	GSW
## 98	5318313	6029822.140	-711509.140	Anthony Morrow	2013	DAL
## 99	4415521	7567912.734	-3152391.734	Anthony Morrow	2017	OKC
## 100	2286644	6888653.545	-4602009.545	Anthony Randolph	2014	DEN
## 101	401665	3978977.226	-3577312.226	Anthony Roberson	2007	GSW
## 102	3840377	5242156.561	-1401779.561	Anthony Tolliver	2015	DET
## 103	6589073	9190796.259	-2601723.259	Anthony Tolliver	2018	DET
## 104	517804	7782674.972	-7264870.972	Anthony Tolliver	2020	POR
## 105	517804	6042044.485	-5524240.485	Anthony Tolliver	2020	SAC
## 106	727675	7930990.629	-7203315.629	Anthony Tolliver	2021	PHI
## 107	2362256	254927.946	2107328.054	Antoine Wright	2007	NJN
## 108	2509865	4761130.224	-2251265.224	Antoine Wright	2009	DAL
## 109	2976170	6979518.849	-4003348.849	Archie Goodwin	2017	NOP
## 110	1030260	1687138.538	-656878.538	Armon Johnson	2012	NJN
## 111	318551	-97950.919	416501.919	Aron Baynes	2013	SAS
## 112	1415898	-340026.993	1755924.993	Arron Afflalo	2009	DET
## 113	1536543	6422608.182	-4886065.182	Arron Afflalo	2010	DEN
## 114	2608245	2396588.214	211656.786	Austin Daye	2012	DET
## 115	3933483	2993313.017	940169.983	Austin Daye	2013	DET
## 116	3933483	3934837.489	-1354.489	Austin Daye	2013	MEM
## 117	1617502	5978976.374	-4361474.374	Austin Daye	2015	SAS
## 118	3123301	942545.083	2180755.917	Austin Rivers	2015	NOP
## 119	14728884	10533351.895	4195532.105	Austin Rivers	2018	LAC
## 120	15928503	3085615.260	12842887.740	Austin Rivers	2019	TOT
## 121	2060643	2841184.398	-780541.398	Avery Bradley	2012	BOS
## 122	10468714	12414122.675	-1945408.675	Avery Bradley	2017	BOS
## 123	136025	-1694607.103	1830632.103	Awvee Storey	2005	NJN
## 124	1041939	1766972.997	-725033.997	Awvee Storey	2008	MIL
## 125	1039045	1179292.738	-140247.738	Ayo Dosunmu	2022	CHI
## 126	6054308	14233870.387	-8179562.387	Bam Adebayo	2021	MIA
## 127	31559650	14753871.353	16805778.647	Bam Adebayo	2022	MIA
## 128	18203563	18780707.148	-577144.148	Baron Davis	2004	NOH
## 129	20616411	11396693.090	9219717.910	Baron Davis	2012	NYK
## 130	5807567	13164755.683	-7357188.683	Ben Gordon	2007	CHI
## 131	17247836	8845222.860	8402613.140	Ben Gordon	2014	CHA
## 132	5760565	9855760.530	-4095195.530	Ben Gordon	2015	ORL
## 133	629693	56643.676	573049.324	Ben Hansbrough	2013	IND
## 134	2416393	8126723.351	-5710330.351	Ben McLemore	2020	HOU
## 135	7790935	13383859.720	-5592924.720	Ben Simmons	2019	PHI
## 136	83039	-17477.778	100516.778	Ben Uzoh	2012	TOT
## 137	9135000	17522454.282	-8387454.282	Ben Wallace	2004	DET

## 138	11258634	15564532.963	-4305898.963	Ben Wallace	2005	DET
## 139	3036464	10581063.691	-7544599.691	Ben Wallace	2012	DET
## 140	1353738	2091483.081	-737745.081	Beno Udrih	2005	SAS
## 141	1662428	10762210.702	-9099782.702	Beno Udrih	2014	MEM
## 142	2659964	8421576.277	-5761612.277	Beno Udrih	2016	TOT
## 143	2659964	8172998.159	-5513034.159	Beno Udrih	2016	MIA
## 144	619670	-814286.134	1433956.134	Bernard Robinson	2005	CHA
## 145	1503740	284026.045	1219713.955	Bernard Robinson	2007	CHA
## 146	1135527	2850367.282	-1714840.282	Billy Thomas	2008	TOT
## 147	4142334	7271261.982	-3128927.982	Bismack Biyombo	2021	CHO
## 148	40121756	11535745.676	28586010.324	Blake Griffin	2021	DET
## 149	40121756	11798694.106	28323061.894	Blake Griffin	2021	BRK
## 150	616470	160738.360	455731.640	Bobby Brown	2009	TOT
## 151	616470	2094264.197	-1477794.197	Bobby Brown	2009	MIN
## 152	1041704	2176675.944	-1134971.944	Bobby Brown	2010	TOT
## 153	14937670	5915563.552	9022106.448	Bobby Simmons	2010	NJN
## 154	804041	4774690.355	-3970649.355	Bobby Simmons	2012	LAC
## 155	2426929	2777961.511	-351032.511	Bol Bol	2022	DEN
## 156	1695921	-332624.500	2028545.500	Boris Diaw	2004	ATL
## 157	1765418	1033595.076	731822.924	Boris Diaw	2005	ATL
## 158	12549327	12199461.518	349865.482	Boris Diaw	2009	TOT
## 159	12549327	4121622.394	8427704.606	Boris Diaw	2009	PHO
## 160	12730969	12632573.033	98395.967	Boris Diaw	2010	CHA
## 161	9589074	11043522.817	-1454448.817	Boris Diaw	2016	SAS
## 162	11626363	9814887.818	1811475.182	Brad Miller	2004	SAC
## 163	14473504	11858391.773	2615112.227	Brad Miller	2007	SAC
## 164	17328264	12851282.287	4476981.713	Brad Miller	2010	CHI
## 165	5643805	9858164.163	-4214359.163	Bradley Beal	2014	WAS
## 166	29614095	18395034.405	11219060.595	Bradley Beal	2018	WAS
## 167	34028421	23981174.577	10047246.423	Bradley Beal	2021	WAS
## 168	3062229	5124770.867	-2062541.867	Brandon Clarke	2022	MEM
## 169	4472897	6588885.133	-2115988.133	Brandon Clarke	2023	MEM
## 170	68828	2326255.783	-2257427.783	Brandon Goodwin	2019	DEN
## 171	2013876	2653356.853	-639480.853	Brandon Goodwin	2021	ATL
## 172	609439	144752.788	464686.212	Brandon Hunter	2004	BOS
## 173	33091731	16542515.464	16549215.536	Brandon Ingram	2022	NOP
## 174	4227385	12780800.322	-8553415.322	Brandon Jennings	2013	MIL
## 175	7073085	5771529.592	1301555.408	Brandon Jennings	2017	TOT
## 176	4549460	12907517.244	-8358057.244	Brandon Knight	2015	TOT
## 177	17715559	6944874.511	10770684.489	Brandon Knight	2019	TOT
## 178	18634313	5838304.005	12796008.995	Brandon Knight	2020	CLE
## 179	18634313	8978430.715	9655882.285	Brandon Knight	2020	DET
## 180	18926094	7284199.283	11641894.717	Brandon Roy	2011	POR
## 181	5226617	1311353.328	3915263.672	Brandon Rush	2014	UTA
## 182	93534	361859.068	-268325.068	Brandon Sampson	2019	CHI
## 183	8968909	11875266.402	-2906357.402	Brent Barry	2004	SEA
## 184	6859564	8969762.882	-2110198.882	Brent Barry	2005	SAS
## 185	7215945	14791661.247	-7575716.247	Brevin Knight	2006	CHA
## 186	6616459	9549311.524	-2932852.524	Brevin Knight	2007	CHA
## 187	1102310	5376999.521	-4274689.521	Brian Cardinal	2004	GSW
## 188	8460382	4345568.079	4114813.921	Brian Cardinal	2006	MEM
## 189	8784528	4808771.541	3975756.459	Brian Cardinal	2009	MIN
## 190	1561990	1737980.305	-175990.305	Brian Cook	2005	LAL
## 191	5125371	1564025.030	3561345.970	Brian Cook	2008	LAL

## 192	1653356	6281053.477	-4627697.477	Brian Cook	2012	TOT
## 193	629693	1048995.745	-419302.745	Brian Roberts	2013	NOH
## 194	3497303	2635809.277	861493.723	Brian Roberts	2015	CHO
## 195	3650164	4084514.080	-434350.080	Brian Roberts	2016	TOT
## 196	4471599	5339012.981	-867413.981	Brian Scalabrino	2009	BOS
## 197	1827746	7414066.972	-5586320.972	Brian Scalabrino	2012	CHI
## 198	789231	695774.302	93456.698	Briante Weber	2017	TOT
## 199	789231	452284.927	336946.073	Briante Weber	2017	GSW
## 200	25173237	17217725.607	7955511.393	Brook Lopez	2016	BRK
## 201	15028006	16902906.512	-1874900.512	Brook Lopez	2021	MIL
## 202	14938236	16115377.511	-1177141.511	Brook Lopez	2022	MIL
## 203	4825129	11816673.535	-6991544.535	Bruce Bowen	2005	SAS
## 204	3053175	1393492.533	1659682.467	Bruno Caboclo	2018	TOT
## 205	3053175	1747906.823	1305268.177	Bruno Caboclo	2018	SAC
## 206	2001846	2290491.084	-288645.084	Bruno Fernando	2022	BOS
## 207	194835	3364100.416	-3169265.416	Bryce Cotton	2015	UTA
## 208	687989	-100706.284	788695.284	Bryn Forbes	2017	SAS
## 209	2766067	6100131.218	-3334064.218	Bryn Forbes	2021	MIL
## 210	5053407	8228511.557	-3175104.557	Bryn Forbes	2022	SAS
## 211	5053407	6170738.502	-1117331.502	Bryn Forbes	2022	DEN
## 212	4452486	6451126.124	-1998640.124	Buddy Hield	2017	TOT
## 213	4641927	15444510.663	-10802583.663	Buddy Hield	2019	SAC
## 214	25910765	8594624.771	17316140.229	Buddy Hield	2022	SAC
## 215	1704661	557601.950	1147059.050	CJ Elleby	2022	POR
## 216	29847101	15814781.002	14032319.998	CJ McCollum	2018	POR
## 217	32824930	15735968.600	17088961.400	CJ McCollum	2020	POR
## 218	1777172	6873583.030	-5096411.030	Calbert Cheaney	2004	GSW
## 219	2760883	7693609.746	-4932726.746	Calbert Cheaney	2006	GSW
## 220	947806	4222689.272	-3274883.272	Caleb Martin	2022	MIA
## 221	6671373	5808441.645	862931.355	Caleb Martin	2023	MIA
## 222	11471824	3002611.494	8469212.506	Calvin Booth	2007	WAS
## 223	5244493	5995104.315	-750611.315	Cam Reddish	2022	ATL
## 224	5244493	4346140.726	898352.274	Cam Reddish	2022	NYK
## 225	4804499	1694611.931	3109887.069	Cameron Johnson	2020	PHO
## 226	6062721	10713260.440	-4650539.440	Cameron Johnson	2023	TOT
## 227	2674226	842922.208	1831303.792	Cameron Payne	2017	OKC
## 228	2674226	2292778.081	381447.919	Cameron Payne	2017	CHI
## 229	4165592	3585363.234	580228.766	Cameron Payne	2019	TOT
## 230	19177476	10146659.276	9030816.724	Caris LeVert	2021	BRK
## 231	19177476	12573008.286	6604467.714	Caris LeVert	2021	IND
## 232	19652138	11942788.384	7709349.616	Caris LeVert	2022	TOT
## 233	5318313	4465114.613	853198.387	Carl Landry	2013	GSW
## 234	8630166	12456592.370	-3826426.370	Carl Landry	2016	PHI
## 235	6433505	2722816.235	3710688.765	Carlos Arroyo	2005	TOT
## 236	1566718	5909634.125	-4342916.125	Carlos Arroyo	2010	MIA
## 237	17639867	9521003.934	8118863.066	Carlos Boozer	2005	UTA
## 238	19991810	18251683.498	1740126.502	Carlos Boozer	2014	CHI
## 239	1521146	905550.189	615595.811	Carlos Delfino	2006	DET
## 240	4899325	9762425.038	-4863100.038	Carlos Delfino	2011	MIL
## 241	5825526	16357663.595	-10532137.595	Carmelo Anthony	2006	DEN
## 242	19097502	16749277.666	2348224.334	Carmelo Anthony	2008	DEN
## 243	25860300	22415093.159	3445206.841	Carmelo Anthony	2013	NYK
## 244	2966564	18517559.371	-15550995.371	Carmelo Anthony	2022	LAL
## 245	13835692	14019878.894	-184186.894	Caron Butler	2010	TOT

## 246	14784708	12564419.454	2220288.546	Caron Butler	2011	DAL
## 247	10958898	9682712.866	1276185.134	Caron Butler	2014	OKC
## 248	122553	932876.147	-810323.147	Cartier Martin	2010	GSW
## 249	1680175	-1329620.388	3009795.388	Casey Jacobsen	2004	PHO
## 250	1740520	-57815.766	1798335.766	Casey Jacobsen	2005	TOT
## 251	557073	1785326.915	-1228253.915	Cassius Stanley	2021	IND
## 252	531538	2018556.071	-1487018.071	Cassius Winston	2021	WAS
## 253	76151	213607.228	-137456.228	Cedric Jackson	2010	SAS
## 254	2411338	-1176067.163	3587405.163	Chandler Hutchison	2019	CHI
## 255	2891870	1841202.845	1050667.155	Chandler Hutchison	2021	TOT
## 256	1210615	9957313.953	-8746698.953	Chandler Parsons	2014	HOU
## 257	28787656	7361103.820	21426552.180	Chandler Parsons	2018	MEM
## 258	3392874	3067022.997	325851.003	Channing Frye	2006	NYK
## 259	2829104	9398287.128	-6569183.128	Channing Frye	2010	PHO
## 260	10475141	9681269.112	793871.888	Channing Frye	2016	ORL
## 261	1039045	1822167.655	-783122.655	Charles Bassey	2022	PHI
## 262	10716402	8402748.553	2313653.447	Charlie Villanueva	2013	DET
## 263	2734239	7752846.063	-5018607.063	Charlie Ward	2005	HOU
## 264	1252852	4357704.538	-3104852.538	Chase Budinger	2013	MIN
## 265	685076	5167879.729	-4482803.729	Chasson Randle	2017	PHI
## 266	9570407	16914006.332	-7343599.332	Chauncey Billups	2007	DET
## 267	18407466	20246889.974	-1839423.974	Chauncey Billups	2011	TOT
## 268	18407466	16942374.555	1465091.445	Chauncey Billups	2011	NYK
## 269	1078066	4260055.350	-3181989.350	Chimezie Metu	2021	SAC
## 270	1967596	5490256.539	-3522660.539	Chimezie Metu	2023	SAC
## 271	2573402	3414646.105	-841244.105	Chris Andersen	2005	NOH
## 272	5163115	5022083.812	141031.188	Chris Andersen	2010	DEN
## 273	8124131	8189102.966	-64971.966	Chris Andersen	2014	MIA
## 274	6784666	10846247.672	-4061581.672	Chris Andersen	2015	MIA
## 275	4835437	4069364.716	766072.284	Chris Bosh	2004	TOR
## 276	18239002	15781562.220	2457439.780	Chris Bosh	2008	TOR
## 277	20297205	14203825.310	6093379.690	Chris Bosh	2011	MIA
## 278	699436	4000541.671	-3301105.671	Chris Douglas-Roberts	2014	CHA
## 279	1171626	2007861.337	-836235.337	Chris Douglas-Roberts	2015	LAC
## 280	4210498	5243843.543	-1033345.543	Chris Duarte	2022	IND
## 281	4392314	3603367.433	788946.567	Chris Duhon	2006	CHI
## 282	4547312	3702942.003	844369.997	Chris Duhon	2007	CHI
## 283	1395761	10835186.810	-9439425.810	Chris Jefferies	2004	TOR
## 284	676204	-1057869.317	1734073.317	Chris Johnson	2013	MEM
## 285	6392716	11551019.864	-5158303.864	Chris Kaman	2016	POR
## 286	1508315	2918939.247	-1410624.247	Chris McCullough	2017	TOT
## 287	5422468	7858180.448	-2435712.448	Chris Mihm	2005	LAL
## 288	4932318	12889745.912	-7957427.912	Chris Paul	2006	NOK
## 289	45867637	23621275.061	22246361.939	Chris Paul	2020	OKC
## 290	1006705	2521302.426	-1514597.426	Chris Quinn	2008	MIA
## 291	1206603	2155809.009	-949206.009	Chris Quinn	2011	SAS
## 292	27459845	18561920.169	8897924.831	Chris Webber	2007	TOT
## 293	9518547	10449880.100	-931333.100	Chris Wilcox	2008	SEA
## 294	181901	1746934.313	-1565033.313	Chris Wright	2014	MIL
## 295	2891992	-1017246.601	3909238.601	Christian Braun	2023	DEN
## 296	9342613	10122721.482	-780108.482	Christian Laettner	2004	WAS
## 297	1831461	8846895.668	-7015434.668	Christian Wood	2019	TOT
## 298	1831461	7204595.145	-5373134.145	Christian Wood	2019	MIL
## 299	1959894	8970531.472	-7010637.472	Christian Wood	2020	DET

## 300	2562685	2956469.766	-393784.766	Chuck Hayes	2008	HOU
## 301	7477329	3778266.434	3699062.566	Chuck Hayes	2014	TOT
## 302	7477329	3831507.362	3645821.638	Chuck Hayes	2014	TOR
## 303	1588871	3068717.200	-1479846.200	Clint Capela	2016	HOU
## 304	6595401	6737631.216	-142230.216	Coby White	2021	CHI
## 305	1796567	-126645.659	1923212.659	Cody Martin	2021	CHO
## 306	5159623	3745138.275	1414484.725	Cody Zeller	2015	CHO
## 307	15674609	3579947.752	12094661.248	Cody Zeller	2018	CHO
## 308	17238456	9896956.544	7341499.456	Cody Zeller	2020	CHO
## 309	5908011	12998172.122	-7090161.122	Collin Sexton	2021	CLE
## 310	4125003	10284639.845	-6159636.845	Corey Brewer	2010	MIN
## 311	5184147	5462115.245	-277968.245	Corey Brewer	2011	TOT
## 312	4134858	6415542.033	-2280684.033	Corey Brewer	2012	DEN
## 313	4311822	8215868.258	-3904046.258	Corey Brewer	2013	DEN
## 314	3099564	11348384.487	-8248820.487	Corey Brewer	2019	PHI
## 315	11626363	12292468.707	-666105.707	Corey Maggette	2004	LAC
## 316	11258634	14548469.172	-3289835.172	Corey Maggette	2005	LAC
## 317	10980786	11593562.818	-612776.818	Corey Maggette	2006	LAC
## 318	14524498	12532331.191	1992166.809	Corey Maggette	2013	DET
## 319	649453	-14775.155	664228.155	Cory Jefferson	2015	BRK
## 320	1469928	1524756.162	-54828.162	Cory Joseph	2013	SAS
## 321	8949802	2627335.570	6322466.430	Cory Joseph	2016	TOR
## 322	9503711	4985321.090	4518389.910	Cory Joseph	2018	IND
## 323	14912405	6621009.537	8291395.463	Cory Joseph	2021	SAC
## 324	8208979	10200624.117	-1991645.117	Cory Joseph	2022	DET
## 325	56783	1196853.398	-1140070.398	Courtney Fortson	2012	TOT
## 326	3007663	5449266.480	-2441603.480	Courtney Lee	2012	HOU
## 327	6827268	8539132.250	-1711864.250	Courtney Lee	2014	MEM
## 328	7255732	8595351.565	-1339619.565	Courtney Lee	2016	MEM
## 329	14632838	13833026.032	799811.968	Courtney Lee	2018	NYK
## 330	14836911	8831221.109	6005689.891	Courtney Lee	2019	TOT
## 331	15198893	9899763.638	5299129.362	Courtney Lee	2020	DAL
## 332	3485924	6507255.687	-3021331.687	Craig Smith	2009	MIN
## 333	11294523	13517965.229	-2223442.229	Cuttino Mobley	2006	LAC
## 334	32309411	14945398.766	17364012.234	D'Angelo Russell	2023	MIN
## 335	1775311	820941.528	954369.472	Daequan Cook	2009	MIA
## 336	1926789	2025111.277	-98322.277	Daequan Cook	2010	MIA
## 337	4790038	4263891.904	526146.096	Daequan Cook	2013	HOU
## 338	2836224	2130999.529	705224.471	Dahntay Jones	2007	MEM
## 339	3649596	6092928.515	-2443332.515	Dahntay Jones	2012	IND
## 340	1036597	-251692.749	1288289.749	Daishen Nix	2022	HOU
## 341	1760235	2398690.052	-638455.052	Damian Jones	2021	PHO
## 342	1760235	3854717.164	-2094482.164	Damian Jones	2021	SAC
## 343	2220142	6866700.090	-4646558.090	Damian Jones	2022	SAC
## 344	2366628	4097629.900	-1731001.900	Damian Jones	2023	TOT
## 345	4075211	8556887.313	-4481676.313	Damian Lillard	2013	POR
## 346	4276797	16301412.214	-12024615.214	Damian Lillard	2015	POR
## 347	30797788	19393804.095	11403983.905	Damian Lillard	2017	POR
## 348	35499530	22784496.544	12715033.456	Damian Lillard	2020	POR
## 349	44183510	16601350.514	27582159.486	Damian Lillard	2022	POR
## 350	619670	679603.742	-59933.742	Damien Wilkins	2005	SEA
## 351	4668022	5762992.030	-1094970.030	Damien Wilkins	2010	MIN
## 352	1549506	3102001.600	-1552495.600	Damien Wilkins	2012	DET
## 353	1236473	5467029.134	-4230556.134	Damien Wilkins	2018	IND

## 354	1680274	-495895.192	2176169.192	Damion James	2012	NJN
## 355	172186	2358995.839	-2186809.839	Damion Lee	2018	ATL
## 356	2196618	5091261.064	-2894643.064	Damion Lee	2023	PHO
## 357	5841548	6529471.061	-687923.061	Damon Jones	2007	CLE
## 358	20553750	12906385.875	7647364.125	Damon Stoudamire	2004	POR
## 359	7184948	12417382.292	-5232434.292	Damon Stoudamire	2008	TOT
## 360	1927927	2250620.732	-322693.732	Damyean Dotson	2020	NYK
## 361	2367048	2475241.929	-108193.929	Damyean Dotson	2021	CLE
## 362	1002833	3804322.746	-2801489.746	Dan Langhi	2004	TOT
## 363	620620	34237.467	586382.533	Daniel Gibson	2007	CLE
## 364	5783396	2693575.319	3089820.681	Daniel Gibson	2010	CLE
## 365	9298663	5572016.556	3726646.444	Daniel Theis	2022	HOU
## 366	26138302	20273986.396	5864315.604	Danilo Gallinari	2019	LAC
## 367	23078722	13750296.939	9328425.061	Danilo Gallinari	2021	ATL
## 368	22993002	13211795.873	9781206.127	Danilo Gallinari	2022	ATL
## 369	2068968	2044971.595	23996.405	Danny Granger	2006	IND
## 370	3248609	18643251.910	-15394642.910	Danny Granger	2009	IND
## 371	15360368	17861574.118	-2501206.118	Danny Granger	2011	IND
## 372	18788695	8435821.439	10352873.561	Danny Granger	2014	TOT
## 373	647282	553740.284	93541.716	Danny Green	2010	CLE
## 374	5152505	15837365.698	-10684860.698	Danny Green	2015	SAS
## 375	12108028	16043785.013	-3935757.013	Danny Green	2019	TOR
## 376	12058233	15509828.440	-3451595.440	Danny Green	2023	CLE
## 377	647282	-512031.072	1159313.072	Dante Cunningham	2010	POR
## 378	1066926	1723857.147	-656931.147	Dante Cunningham	2011	CHA
## 379	2778818	2579542.232	199275.768	Dante Cunningham	2013	MIN
## 380	1064989	2884466.252	-1819477.252	Dante Cunningham	2015	NOP
## 381	2864814	5907890.402	-3043076.402	Dante Cunningham	2018	NOP
## 382	4988121	2229857.945	2758263.055	Dante Exum	2017	UTA
## 383	7954135	7726987.541	227147.459	Darius Garland	2021	CLE
## 384	60633	-3040084.341	3100717.341	Darius Johnson-Odom	2014	PHI
## 385	6860718	4776007.513	2084710.487	Darius Miles	2004	CLE
## 386	1246074	727090.906	518983.094	Darius Morris	2013	LAL
## 387	5488653	2910744.580	2577908.420	Darius Songaila	2007	WAS
## 388	6402263	4937203.187	1465059.813	Darius Songaila	2010	NOH
## 389	1041704	-1088035.604	2129739.604	Darnell Jackson	2010	TOT
## 390	1041704	-1006022.222	2047726.222	Darnell Jackson	2010	CLE
## 391	3659056	10058272.640	-6399216.640	Darrell Armstrong	2005	NOH
## 392	3659056	7468520.337	-3809464.337	Darrell Armstrong	2005	DAL
## 393	1485958	428039.932	1057918.068	Darrell Arthur	2010	MEM
## 394	1968024	5582294.850	-3614270.850	Darren Collison	2012	IND
## 395	6141612	10835314.287	-4693702.287	Darren Collison	2015	SAC
## 396	6410051	7215718.526	-805667.526	Darren Collison	2016	SAC
## 397	12108028	15500810.139	-3392782.139	Darren Collison	2019	IND
## 398	1785957	8151341.640	-6365384.640	Darrick Martin	2008	TOR
## 399	1351446	2658318.312	-1306872.312	Darvin Ham	2004	DET
## 400	3253469	857068.165	2396400.835	David Andersen	2010	HOU
## 401	3499518	1312149.664	2187368.336	David Andersen	2011	NOH
## 402	2493178	9022657.360	-6529479.360	David Lee	2009	NYK
## 403	9901865	13853304.136	-3951439.136	David Lee	2010	NYK
## 404	19217247	9657211.352	9560035.648	David Lee	2015	GSW
## 405	1831461	2143981.932	-312520.932	David Nwaba	2019	CLE
## 406	1075755	3994438.827	-2918683.827	David Nwaba	2020	BRK
## 407	2158751	5516304.300	-3357553.300	David Nwaba	2021	HOU

## 408	6577200	14093609.860	-7516409.860	David Wesley	2004	NOH
## 409	7165316	12797964.800	-5632648.800	David Wesley	2005	NOH
## 410	15679851	19568508.679	-3888657.679	David West	2014	IND
## 411	5169298	1404793.942	3764504.058	Davion Mitchell	2022	SAC
## 412	4977118	-264815.889	5241933.889	Davion Mitchell	2023	SAC
## 413	5741088	5596905.798	144182.202	De'Aaron Fox	2018	SAC
## 414	8731613	6165222.959	2566390.041	De'Andre Hunter	2022	ATL
## 415	1013398	-1109808.427	2123206.427	DeAndre Liggins	2013	OKC
## 416	1875758	236113.544	1639644.456	DeAndre Liggins	2018	TOT
## 417	1401375	4386034.188	-2984659.188	DeJuan Blair	2013	SAS
## 418	4446442	9906975.408	-5460533.408	DeMar DeRozan	2013	TOR
## 419	12413215	15073554.653	-2660339.653	DeMar DeRozan	2014	TOR
## 420	12146160	17229942.716	-5083782.716	DeMar DeRozan	2016	TOR
## 421	5159827	12451942.718	-7292115.718	DeMarcus Cousins	2013	SAC
## 422	19946356	16065055.519	3881300.481	DeMarcus Cousins	2017	NOP
## 423	3611916	12463663.626	-8851747.626	DeMarcus Cousins	2021	HOU
## 424	2289689	13331122.302	-11041433.302	DeMarcus Cousins	2022	MIL
## 425	1126931	1667365.750	-540434.750	DeMarre Carroll	2012	TOT
## 426	1126931	1283991.122	-157060.122	DeMarre Carroll	2012	UTA
## 427	1176836	3821745.106	-2644909.106	DeMarre Carroll	2013	UTA
## 428	3266635	9579973.621	-6313338.621	DeMarre Carroll	2014	ATL
## 429	2684173	7232993.745	-4548820.745	DeShawn Stevenson	2004	TOT
## 430	2684173	2934848.449	-250675.449	DeShawn Stevenson	2004	ORL
## 431	5498262	5144846.591	353415.409	DeShawn Stevenson	2010	TOT
## 432	5498262	4931274.871	566987.129	DeShawn Stevenson	2010	WAS
## 433	1796567	1296392.366	500174.634	Dean Wade	2021	CLE
## 434	2001846	2649051.275	-647205.275	Dean Wade	2022	CLE
## 435	620620	-1887781.208	2508401.208	Dee Brown	2007	UTA
## 436	332649	-1050254.658	1382903.658	Dee Brown	2009	TOT
## 437	332649	-979379.568	1312028.568	Dee Brown	2009	WAS
## 438	332649	-1095607.674	1428256.674	Dee Brown	2009	PHO
## 439	1634951	7619696.850	-5984745.850	Dejounte Murray	2018	SAS
## 440	17577991	16310243.284	1267747.716	Dejounte Murray	2023	ATL
## 441	1584433	7964382.061	-6379949.061	Delonte West	2006	BOS
## 442	1497106	5147284.516	-3650178.516	Delonte West	2011	BOS
## 443	1549506	10779543.344	-9230037.344	Delonte West	2012	DAL
## 444	122555	3995013.375	-3872458.375	Demetris Nichols	2009	TOT
## 445	5289359	569899.304	4719459.696	Deni Avdija	2021	WAS
## 446	1198314	6728421.166	-5530107.166	DerMarr Johnson	2005	DEN
## 447	13580325	8657857.674	4922467.326	Derek Anderson	2005	POR
## 448	7140659	15766014.523	-8625355.523	Derek Fisher	2010	LAL
## 449	5179287	15532450.931	-10353163.931	Derek Fisher	2011	LAL
## 450	4595788	10988647.097	-6392859.097	Derek Fisher	2012	OKC
## 451	2019913	12960397.548	-10940484.548	Derek Fisher	2013	OKC
## 452	20913333	13500222.787	7413110.213	Deron Williams	2011	UTA
## 453	20462568	16220487.487	4242080.513	Derrick Favors	2019	UTA
## 454	10957067	8619733.091	2337333.909	Derrick Favors	2021	UTA
## 455	3155640	9264272.291	-6108632.291	Derrick Rose	2018	MIN
## 456	2018602	7184526.104	-5165924.104	Derrick White	2019	SAS
## 457	2320487	5825679.364	-3505192.364	Derrick White	2020	SAS
## 458	4161607	9640239.355	-5478632.355	Derrick White	2021	SAS
## 459	17651858	12985910.049	4665947.951	Derrick White	2023	BOS
## 460	5625590	7087212.704	-1461622.704	Derrick Williams	2016	NYK
## 461	11503680	7604366.763	3899313.237	Desmond Mason	2006	NOK

## 462	3469307	5225006.298	-1755699.298	Devean George	2008	DAL
## 463	2263283	8265368.551	-6002085.551	Devean George	2010	GSW
## 464	2814895	11846760.874	-9031865.874	Devin Booker	2017	PHO
## 465	1757270	5005215.074	-3247945.074	Devin Brown	2008	CLE
## 466	1382761	2054386.302	-671625.302	Devin Ebanks	2013	LAL
## 467	4965474	10303895.735	-5338421.735	Devin Harris	2015	DAL
## 468	5483686	12546366.706	-7062680.706	Devin Harris	2018	TOT
## 469	2898525	13226243.879	-10327718.879	Devin Harris	2019	DAL
## 470	1080444	-420248.534	1500692.534	Devyn Marble	2016	ORL
## 471	15882222	6559336.665	9322885.335	Dewayne Dedmon	2020	TOT
## 472	15882222	5938222.740	9943999.260	Dewayne Dedmon	2020	SAC
## 473	8529645	11003302.731	-2473657.731	Dewayne Dedmon	2023	MIA
## 474	133984	827695.582	-693711.582	Dijon Thompson	2007	ATL
## 475	13492176	10984555.906	2507620.094	Dillon Brooks	2021	MEM
## 476	11738486	10929050.653	809435.347	Dillon Brooks	2023	MEM
## 477	1660909	6519647.112	-4858738.112	Dion Glover	2004	TOT
## 478	21715534	23005275.694	-1289741.694	Dirk Nowitzki	2006	DAL
## 479	28002070	23970225.809	4031844.191	Dirk Nowitzki	2010	DAL
## 480	29688989	27165025.611	2523963.389	Dirk Nowitzki	2014	DAL
## 481	20775118	13471424.487	7303693.513	Domantas Sabonis	2022	IND
## 482	625534	-3816648.305	4442182.305	Dominic McGuire	2008	WAS
## 483	992117	2888027.479	-1895910.479	Dominic McGuire	2009	WAS
## 484	524000	-1864060.703	2388060.703	Dominick Barlow	2023	SAS
## 485	268487	-1149578.468	1418065.468	Donald Sloan	2012	TOT
## 486	399398	430856.876	-31458.876	Donald Sloan	2013	CLE
## 487	5250860	3750519.443	1500340.557	Donte DiVincenzo	2022	TOT
## 488	4633612	7590250.221	-2956638.221	Donte DiVincenzo	2023	GSW
## 489	8811195	10584887.532	-1773692.532	Donyell Marshall	2008	TOT
## 490	1853235	-77394.924	1930629.924	Dorell Wright	2005	MIA
## 491	4899325	14246673.789	-9347348.789	Dorell Wright	2011	GSW
## 492	4025995	10084417.408	-6058422.408	Dorell Wright	2015	POR
## 493	13324055	8536654.724	4787400.276	Dorian Finney-Smith	2023	TOT
## 494	13324055	7133733.178	6190321.822	Dorian Finney-Smith	2023	DAL
## 495	13324055	5629232.288	7694822.712	Dorian Finney-Smith	2023	BRK
## 496	8879221	3686598.714	5192622.286	Doug McDermott	2019	IND
## 497	14158261	8196979.567	5961281.433	Doug McDermott	2023	SAS
## 498	1155733	5777864.166	-4622131.166	Doug Overton	2004	TOT
## 499	5413470	-1523751.453	6937221.453	Dragan Bender	2017	PHO
## 500	225964	3773233.438	-3547269.438	Dragan Bender	2020	TOT
## 501	225964	4573131.832	-4347167.832	Dragan Bender	2020	GSW
## 502	1130141	-1956267.369	3086408.369	Draymond Green	2013	GSW
## 503	22083193	10013633.434	12069559.566	Draymond Green	2020	GSW
## 504	1917976	3504540.054	-1586564.054	Drew Eubanks	2021	SAS
## 505	2515271	4352727.830	-1837456.830	Drew Eubanks	2022	SAS
## 506	2515271	5786672.220	-3271401.220	Drew Eubanks	2022	POR
## 507	5169450	10504524.743	-5335074.743	Drew Gooden	2005	CLE
## 508	9450330	8839283.472	611046.528	Drew Gooden	2008	TOT
## 509	9450330	7397579.605	2052750.395	Drew Gooden	2008	CHI
## 510	9971392	8833779.729	1137612.271	Drew Gooden	2009	CHI
## 511	6365484	6982349.447	-616865.447	Drew Gooden	2010	DAL
## 512	8415970	15278965.307	-6862995.307	Drew Gooden	2012	MIL
## 513	8881583	9489027.152	-607444.152	Drew Gooden	2013	MIL
## 514	4219192	10139395.302	-5920203.302	Drew Gooden	2016	WAS
## 515	94290	-1341954.886	1436244.886	Drew Gordon	2015	PHI

## 516	385472	-518587.637	904059.637	Dru Smith	2023	TOT
## 517	57355	142260.419	-84905.419	Dusty Hannahs	2019	MEM
## 518	3055048	13087821.620	-10032773.620	Dwight Howard	2020	LAL
## 519	649453	641074.184	8378.816	Dwight Powell	2015	DAL
## 520	5776534	18842074.156	-13065540.156	Dwyane Wade	2007	MIA
## 521	21209564	20459301.042	750262.958	Dwyane Wade	2012	MIA
## 522	24220143	18404022.188	5816120.812	Dwyane Wade	2014	MIA
## 523	29369295	24478420.895	4890874.105	Dwyane Wade	2017	CHI
## 524	22269140	16733523.497	5535616.503	Dwyane Wade	2018	MIA
## 525	2898525	19651945.045	-16753420.045	Dwyane Wade	2019	MIA
## 526	10321373	8898397.804	1422975.196	E'Twaun Moore	2020	NOP
## 527	1425333	2306161.867	-880828.867	Earl Barron	2008	MIA
## 528	499329	4525470.640	-4026141.640	Earl Barron	2015	PHO
## 529	5698995	5109151.007	589843.993	Earl Clark	2014	CLE
## 530	5698995	4148894.487	1550100.513	Earl Clark	2014	NYK
## 531	2219805	2351653.309	-131848.309	Earl Watson	2004	MEM
## 532	8120200	6796791.144	1323408.856	Earl Watson	2007	SEA
## 533	5386861	5054961.577	331899.423	Ed Davis	2019	BRK
## 534	4060100	1442633.821	2617466.179	Eddie Griffin	2007	MIN
## 535	2232951	6875028.730	-4642077.730	Eddie House	2005	CHA
## 536	1311121	9210309.125	-7899188.125	Eddie House	2006	PHO
## 537	2196587	8667383.848	-6470796.848	Eddie House	2008	BOS
## 538	1892792	9134059.801	-7241267.801	Eddie House	2011	MIA
## 539	4453805	729544.341	3724260.659	Ekpe Udoh	2012	MIL
## 540	4686604	161339.477	4525264.523	Ekpe Udoh	2013	MIL
## 541	4150668	8764790.049	-4614122.049	Elfrid Payton	2018	ORL
## 542	451243	-596169.377	1047412.377	Elijah Millsap	2016	UTA
## 543	18203563	13468745.093	4734817.907	Elton Brand	2004	LAC
## 544	23059676	16445170.365	6614505.635	Elton Brand	2012	PHI
## 545	2560251	10818322.796	-8258071.796	Elton Brand	2015	ATL
## 546	5199767	9784137.535	-4584370.535	Emmanuel Mudiay	2019	NYK
## 547	17260333	13335228.388	3925104.612	Eric Bledsoe	2016	PHO
## 548	17722850	19306940.912	-1584090.912	Eric Bledsoe	2017	PHO
## 549	18060788	11155648.383	6905139.617	Eric Bledsoe	2018	PHO
## 550	18162042	18652518.326	-490476.326	Eric Bledsoe	2019	MIL
## 551	18611978	17603042.583	1008935.417	Eric Bledsoe	2020	MIL
## 552	16346292	15271425.989	1074866.011	Eric Gordon	2019	HOU
## 553	20459356	15673607.549	4785748.451	Eric Gordon	2022	HOU
## 554	3109511	1038204.900	2071306.100	Eric Maynor	2013	OKC
## 555	3109511	1722394.916	1387116.084	Eric Maynor	2013	POR
## 556	9201436	9152351.902	49084.098	Eric Williams	2004	CLE
## 557	6460070	10964579.091	-4504509.091	Eric Williams	2007	CHA
## 558	7780734	7774611.782	6122.218	Ervin Johnson	2005	MIN
## 559	1043199	2790076.087	-1746877.087	Eugene Omoruyi	2023	OKC
## 560	1810088	2796563.680	-986475.680	Evan Fournier	2013	DEN
## 561	6442921	237010.729	6205910.271	Evan Turner	2011	PHI
## 562	6688007	3552308.223	3135698.777	Evan Turner	2012	PHI
## 563	21635658	6498700.672	15136957.328	Evan Turner	2019	POR
## 564	3647189	-2660646.639	6307835.639	Fabricio Oberto	2006	SAS
## 565	997267	138547.677	858719.323	Francisco Elson	2005	DEN
## 566	4393175	1988856.015	2404318.985	Francisco Elson	2008	TOT
## 567	3340219	391732.972	2948486.028	Frank Kaminsky	2016	CHO
## 568	5031757	614039.603	4417717.397	Frank Ntilikina	2019	NYK
## 569	2009297	4290216.430	-2280919.430	Frank Ntilikina	2022	DAL

## 570	2529139	3390572.240	-861433.240	Fred Jones	2005	IND
## 571	3653218	3444862.227	208355.773	Fred Jones	2006	IND
## 572	1634951	3481384.548	-1846433.548	Fred VanVleet	2018	TOR
## 573	11132825	11957737.151	-824912.151	Fred VanVleet	2020	TOR
## 574	5148458	5780265.545	-631807.545	Furkan Korkmaz	2023	PHI
## 575	782013	1626008.260	-843995.260	Gabe Vincent	2021	MIA
## 576	1869587	4837113.956	-2967526.956	Gabe Vincent	2023	MIA
## 577	640495	-1615844.182	2256339.182	Gal Mekel	2014	DAL
## 578	238488	-30039.321	268527.321	Garrett Temple	2011	TOT
## 579	238488	-3294490.799	3532978.799	Garrett Temple	2011	SAS
## 580	1255910	4762027.183	-3506117.183	Garrett Temple	2015	WAS
## 581	9686422	9173213.951	513208.049	Garrett Temple	2019	TOT
## 582	5641860	8482299.937	-2840439.937	Garrett Temple	2021	CHI
## 583	5513828	9730984.291	-4217156.291	Garrett Temple	2022	NOP
## 584	5308575	10129630.294	-4821055.294	Garrett Temple	2023	NOP
## 585	94778	2364928.434	-2270150.434	Garrison Mathews	2020	WAS
## 586	2059383	2901771.828	-842388.828	Garrison Mathews	2023	HOU
## 587	2059383	6114424.171	-4055041.171	Garrison Mathews	2023	ATL
## 588	1944766	-517414.439	2462180.439	Gary Harris	2015	DEN
## 589	2096208	7652714.771	-5556506.771	Gary Harris	2017	DEN
## 590	3176276	10849819.154	-7673543.154	Gary Harris	2018	DEN
## 591	1771929	12985072.803	-11213143.803	Gary Payton	2007	MIA
## 592	1530092	5442556.498	-3912464.498	George Hill	2010	SAS
## 593	10228345	12252525.449	-2024180.449	George Hill	2016	IND
## 594	24911432	9245901.030	15665530.970	George Hill	2018	CLE
## 595	12071172	11432053.196	639118.804	George Hill	2020	MIL
## 596	4118767	10521978.812	-6403211.812	George Hill	2023	TOT
## 597	3705831	4528157.291	-822326.291	Georges Niang	2022	PHI
## 598	561322	792899.016	-231577.016	Georgios Kalaitzakis	2022	MIL
## 599	2787855	-49337.193	2837192.193	Georgios Papagiannis	2017	SAC
## 600	4653524	5917529.027	-1264005.027	Gerald Green	2013	IND
## 601	4573289	13299837.244	-8726548.244	Gerald Green	2014	PHO
## 602	7671259	6376397.360	1294861.640	Gerald Henderson	2016	POR
## 603	11393261	8585862.048	2807398.952	Gerald Henderson	2017	PHI
## 604	2657766	11231658.094	-8573892.094	Gerald Wallace	2005	CHA
## 605	2397931	7957934.885	-5560003.885	Giannis Antetokounmpo	2015	MIL
## 606	32580159	26016960.098	6563198.902	Giannis Antetokounmpo	2021	MIL
## 607	44183510	30359506.874	13824003.126	Giannis Antetokounmpo	2022	MIL
## 608	2240219	3522080.297	-1281861.297	Gigi Datome	2015	BOS
## 609	14177520	10795601.467	3381918.533	Gilbert Arenas	2004	WAS
## 610	24819555	12457402.383	12362152.617	Gilbert Arenas	2011	WAS
## 611	24819555	9321829.538	15497725.462	Gilbert Arenas	2011	ORL
## 612	26046371	9184860.583	16861510.417	Gilbert Arenas	2012	MEM
## 613	10020804	5268772.708	4752031.292	Glen Davis	2015	LAC
## 614	649453	-794891.895	1444344.895	Glenn Robinson III	2015	MIN
## 615	1406397	1304878.612	101518.388	Glenn Robinson III	2016	IND
## 616	1329846	2918831.798	-1588985.798	Glenn Robinson III	2017	IND
## 617	2242808	8213488.573	-5970680.573	Glenn Robinson III	2020	GSW
## 618	2242808	5216453.330	-2973645.330	Glenn Robinson III	2020	PHI
## 619	5537187	3368832.934	2168354.066	Goga Bitadze	2023	TOT
## 620	3423808	6682434.760	-3258626.760	Gordon Hayward	2012	UTA
## 621	20347275	19303138.499	1044136.501	Gordon Hayward	2017	UTA
## 622	19331697	9310871.257	10020825.743	Gorgui Dieng	2020	MIN
## 623	20815454	9121880.202	11693573.798	Gorgui Dieng	2021	TOT

## 624	4227127	8285685.678	-4058558.678	Gorgui Dieng	2023	SAS
## 625	2755832	17974085.085	-15218253.085	Grant Hill	2009	PHO
## 626	2939735	2376435.163	563299.837	Grant Williams	2022	BOS
## 627	2514789	3534457.765	-1019668.765	Grayson Allen	2019	UTA
## 628	4384800	1547862.431	2836937.569	Greg Buckner	2004	PHI
## 629	5591429	4507097.574	1084331.426	Greg Buckner	2009	MEM
## 630	14394544	9681339.685	4713204.315	Greg Ostertag	2004	UTA
## 631	3496606	-98767.302	3595373.302	Greg Stiemsma	2014	NOP
## 632	3229937	1968868.417	1261068.583	Guerschon Yabusele	2019	BOS
## 633	5949181	5839201.133	109979.867	Hakim Warrick	2011	PHO
## 634	5406810	7246032.658	-1839222.658	Hakim Warrick	2012	PHO
## 635	5318313	8384296.028	-3065983.028	Hakim Warrick	2013	TOT
## 636	3720213	6187686.781	-2467473.781	Harrison Barnes	2013	GSW
## 637	29189136	13346393.553	15842742.447	Harrison Barnes	2019	TOT
## 638	29189136	13068361.736	16120774.264	Harrison Barnes	2019	DAL
## 639	26293066	12191049.627	14102016.373	Harrison Barnes	2021	SAC
## 640	620620	606280.669	14339.331	Hassan Adams	2007	NJN
## 641	2745828	11047249.441	-8301421.441	Hassan Whiteside	2021	SAC
## 642	93534	-1890452.071	1983986.071	Haywood Highsmith	2019	PHI
## 643	1804676	610229.334	1194446.666	Haywood Highsmith	2023	MIA
## 644	2157276	2153410.824	3865.176	Henry Ellenson	2017	DET
## 645	1030782	3011310.268	-1980528.268	Henry Sims	2014	TOT
## 646	755907	1724520.050	-968613.050	Henry Walker	2009	BOS
## 647	3962440	696287.188	3266152.812	Hilton Armstrong	2010	TOT
## 648	640495	-462273.777	1102768.777	Hollis Thompson	2014	PHI
## 649	1045199	2006454.584	-961255.584	Hollis Thompson	2015	PHI
## 650	619670	2124435.053	-1504765.053	Horace Jenkins	2005	DET
## 651	9705937	8973855.154	732081.846	Howard Eisley	2004	NYK
## 652	10135864	6710548.004	3425315.996	Howard Eisley	2005	UTA
## 653	1045198	-97155.996	1142353.996	Ian Clark	2015	UTA
## 654	1045198	4275286.498	-3230088.498	Ian Clark	2015	DEN
## 655	1211133	2985550.047	-1774417.047	Ian Clark	2016	GSW
## 656	1285787	4046927.878	-2761140.878	Ian Clark	2017	GSW
## 657	1066927	2029740.975	-962813.975	Ian Mahinmi	2011	DAL
## 658	5318313	2447606.503	2870706.497	Ian Mahinmi	2013	IND
## 659	5226617	2132524.924	3094092.076	Ian Mahinmi	2014	IND
## 660	19372845	8013010.325	11359834.675	Ian Mahinmi	2019	WAS
## 661	13332433	9597992.791	3734440.209	Iman Shumpert	2019	SAC
## 662	13332433	4328086.905	9004346.095	Iman Shumpert	2019	HOU
## 663	1505919	3294053.086	-1788134.086	Ime Udoka	2009	SAS
## 664	4349612	5426104.556	-1076492.556	Ira Newble	2005	CLE
## 665	4627930	838043.202	3789886.798	Ira Newble	2006	CLE
## 666	5040290	5665138.235	-624848.235	Ira Newble	2008	CLE
## 667	1941874	826275.095	1115598.905	Isaac Bonga	2022	TOR
## 668	901649	4428813.087	-3527164.087	Isaiah Canaan	2019	MIN
## 669	1941874	6047082.520	-4105208.520	Isaiah Hartenstein	2022	LAC
## 670	1063171	1319088.110	-255917.110	Isaiah Joe	2021	PHI
## 671	1890606	5263208.871	-3372602.871	Isaiah Joe	2023	OKC
## 672	1609941	1157228.888	452712.112	Isaiah Livers	2023	DET
## 673	1013398	7444488.138	-6431090.138	Isaiah Thomas	2013	SAC
## 674	1155465	11599744.962	-10444279.962	Isaiah Thomas	2014	SAC
## 675	8838401	18561162.199	-9722761.199	Isaiah Thomas	2016	BOS
## 676	189006	11219916.257	-11030910.257	Isaiah Thomas	2021	NOP
## 677	1359779	989081.539	370697.461	Isaiah Whitehead	2017	BRK

## 678	1310054	2826685.578	-1516631.578	Ivica Zubac	2017	LAL
## 679	7720525	9360923.789	-1640398.789	Ivica Zubac	2020	LAC
## 680	10424040	9494636.078	929403.922	Ivica Zubac	2023	LAC
## 681	649453	2215263.379	-1565810.379	JaKarr Sampson	2015	PHI
## 682	1410932	1415339.338	-4407.338	JaKarr Sampson	2016	DEN
## 683	96220	1657874.625	-1561654.625	JaKarr Sampson	2018	SAC
## 684	103471	8323804.403	-8220333.403	JaKarr Sampson	2019	CHI
## 685	2069229	4159573.599	-2090344.599	JaKarr Sampson	2020	IND
## 686	9767143	5283762.297	4483380.703	JaMychal Green	2019	TOT
## 687	9208430	6886736.372	2321693.628	JaMychal Green	2022	DEN
## 688	1776856	12664950.327	-10888094.327	JaVale McGee	2017	GSW
## 689	4764666	15886009.609	-11121343.609	JaVale McGee	2020	LAL
## 690	4970801	12457380.689	-7486579.689	JaVale McGee	2021	DEN
## 691	133709	1200066.236	-1066357.236	Jabari Brown	2015	LAL
## 692	2294044	667123.513	1626920.487	Jacob Evans	2020	GSW
## 693	96220	-3413443.200	3509663.200	Jacob Wiley	2018	BRK
## 694	1610844	6226839.133	-4615995.133	Jacque Vaughn	2007	SAS
## 695	2188300	4445159.208	-2256859.208	Jaden Springer	2023	PHI
## 696	1171626	4071932.795	-2900306.795	Jae Crowder	2015	TOT
## 697	8465050	7032669.014	1432380.986	Jae Crowder	2018	TOT
## 698	8465050	6548552.643	1916497.357	Jae Crowder	2018	CLE
## 699	8845913	8969772.186	-123859.186	Jae Crowder	2019	UTA
## 700	10957067	12083109.743	-1126042.743	Jae Crowder	2021	PHO
## 701	7274995	3197157.644	4077837.356	Jae'Sean Tate	2023	HOU
## 702	3519537	158393.498	3361143.502	Jakob Poeltl	2018	TOR
## 703	9677195	13599393.890	-3922198.890	Jakob Poeltl	2023	TOT
## 704	1687706	3476814.574	-1789108.574	Jalen Brunson	2020	DAL
## 705	1969219	4529984.061	-2560765.061	Jalen Brunson	2021	DAL
## 706	4246737	1205830.911	3040906.089	Jalen Duren	2023	DET
## 707	96220	1564552.764	-1468332.764	Jalen Jones	2018	TOT
## 708	1796567	4293459.330	-2496892.330	Jalen Lecque	2021	IND
## 709	1070036	-521536.804	1591572.804	Jalen McDaniels	2020	CHO
## 710	1796567	2490678.315	-694111.315	Jalen McDaniels	2021	CHO
## 711	22056457	13731598.464	8324858.536	Jalen Rose	2004	TOT
## 712	24619315	13493633.697	11125681.303	Jalen Rose	2006	TOT
## 713	24272630	12181311.623	12091318.377	Jalen Rose	2007	PHO
## 714	5006241	3780643.276	1225597.724	Jalen Smith	2022	TOT
## 715	7403713	6192330.169	1211382.831	Jalen Suggs	2022	ORL
## 716	699060	-1476492.348	2175552.348	Jamaal Franklin	2014	MEM
## 717	2868009	7103069.232	-4235060.232	Jamaal Magloire	2004	NOH
## 718	8756502	4526749.114	4229752.886	Jamaal Tinsley	2010	MEM
## 719	524000	1679904.192	-1155904.192	Jamal Cain	2023	MIA
## 720	12047353	11641852.584	405500.416	Jamal Crawford	2009	NYK
## 721	6827268	18706111.013	-11878843.013	Jamal Crawford	2014	LAC
## 722	120458	-1502096.909	1622554.909	Jamaree Bouyea	2023	TOT
## 723	3890018	1294731.831	2595286.169	Jamario Moon	2010	CLE
## 724	4199421	2398325.822	1801095.178	Jamario Moon	2011	TOT
## 725	1779121	3140676.319	-1361555.319	Jameer Nelson	2005	ORL
## 726	10543279	10968313.752	-425034.752	Jameer Nelson	2012	ORL
## 727	6080596	9269926.495	-3189330.495	Jameer Nelson	2015	DAL
## 728	6080596	11282136.241	-5201540.241	Jameer Nelson	2015	DEN
## 729	6025498	3694315.346	2331182.654	James Harden	2011	OKC
## 730	7738699	18766757.354	-11028058.354	James Harden	2013	HOU
## 731	37014243	35824695.805	1189547.195	James Harden	2019	HOU

## 732	48826198	22223957.142	26602240.858	James Harden	2021	TOT
## 733	49760158	23924723.279	25835434.721	James Harden	2022	TOT
## 734	49760158	17205279.860	32554878.140	James Harden	2022	PHI
## 735	3738782	3732537.531	6244.469	James Johnson	2013	SAC
## 736	18283693	9475843.989	8807849.011	James Johnson	2020	MIA
## 737	2966564	9332972.644	-6366408.644	James Johnson	2022	BRK
## 738	1497106	5518410.258	-4021304.258	James Jones	2011	MIA
## 739	2027553	6309543.529	-4281990.529	James Jones	2012	MIA
## 740	1854249	9826623.506	-7972374.506	James Jones	2015	CLE
## 741	4694840	8231755.914	-3536915.914	James Posey	2008	BOS
## 742	980427	-781539.098	1761966.098	James Singleton	2006	LAC
## 743	1457256	1101511.565	355744.435	James Singleton	2010	WAS
## 744	203451	3114248.399	-2910797.399	James Southerland	2014	TOT
## 745	1230289	933124.410	297164.590	James White	2007	SAS
## 746	96220	1884814.666	-1788594.666	James Young	2018	PHI
## 747	936219	3929572.093	-2993353.093	Jannero Pargo	2004	CHI
## 748	925978	4928328.062	-4002350.062	Jannero Pargo	2013	WAS
## 749	1700228	-3137441.737	4837669.737	Jared Cunningham	2014	ATL
## 750	1700228	4001770.386	-2301542.386	Jared Cunningham	2014	SAC
## 751	1328500	2426750.297	-1098250.297	Jared Cunningham	2016	CLE
## 752	3817900	6823809.890	-3005909.890	Jared Jeffries	2006	WAS
## 753	8435099	5321275.241	3113823.759	Jared Jeffries	2009	NYK
## 754	9147343	6147835.089	2999507.911	Jared Jeffries	2010	NYK
## 755	9147343	4755582.330	4391760.670	Jared Jeffries	2010	HOU
## 756	1573682	905817.941	667864.059	Jarell Martin	2016	MEM
## 757	2925567	2872603.357	52963.643	Jarell Martin	2019	ORL
## 758	4503871	5125161.416	-621290.416	Jarred Vanderbilt	2023	LAL
## 759	2462918	8449507.766	-5986589.766	Jarrett Allen	2019	BRK
## 760	6439113	7456403.778	-1017290.778	Jarrett Jack	2011	TOT
## 761	6439113	6953928.718	-514815.718	Jarrett Jack	2011	TOR
## 762	6439113	6592175.822	-153062.822	Jarrett Jack	2011	NOH
## 763	164467	397760.232	-233293.232	Jarrold Uthoff	2017	DAL
## 764	3441321	1862605.068	1578715.932	Jarron Collins	2008	UTA
## 765	2412564	6627062.416	-4214498.416	Jason Collier	2005	ATL
## 766	2038732	4552177.571	-2513445.571	Jason Collins	2004	NJN
## 767	1671721	3599489.439	-1927768.439	Jason Collins	2010	ATL
## 768	570114	7015348.096	-6445234.096	Jason Collins	2014	BRK
## 769	2891151	5440144.729	-2548993.729	Jason Hart	2007	TOT
## 770	3463614	4395751.111	-932137.111	Jason Hart	2009	LAC
## 771	7843283	2991554.240	4851728.760	Jason Kapono	2008	TOR
## 772	8788556	4647575.585	4140980.415	Jason Kapono	2010	PHI
## 773	1653356	4085802.669	-2432446.669	Jason Kapono	2012	LAL
## 774	27193647	22205017.951	4988629.049	Jason Kidd	2007	NJN
## 775	1524959	1156382.386	368576.614	Jason Maxiell	2008	DET
## 776	5684031	15580352.776	-9896321.776	Jason Richardson	2005	GSW
## 777	15037406	11723254.549	3314151.451	Jason Richardson	2007	GSW
## 778	17658764	13105329.197	4553434.803	Jason Richardson	2009	PHO
## 779	20219438	17822205.674	2397232.326	Jason Richardson	2011	TOT
## 780	5497735	7867844.738	-2370109.738	Jason Smith	2016	ORL
## 781	10457892	14880055.867	-4422163.867	Jason Terry	2006	DAL
## 782	13951020	13039834.933	911185.067	Jason Terry	2010	DAL
## 783	6976685	14274100.941	-7297415.941	Jason Terry	2015	HOU
## 784	1916775	13459061.493	-11542286.493	Jason Terry	2016	HOU
## 785	1964272	12191311.687	-10227039.687	Jason Terry	2017	MIL

## 786	2640713	1124088.151	1516624.849	Jason Thompson	2009	SAC
## 787	8633655	5968066.106	2665588.894	Jason Thompson	2016	TOT
## 788	12405861	11057416.499	1348444.501	Jason Williams	2007	MIA
## 789	1848048	9048822.250	-7200774.250	Jason Williams	2010	ORL
## 790	1882036	2135885.899	-253849.899	Javaris Crittenton	2008	LAL
## 791	1926405	-582423.969	2508828.969	Javaris Crittenton	2009	WAS
## 792	1070036	736823.403	333212.597	Javonte Green	2020	BOS
## 793	1869587	3375380.525	-1505793.525	Javonte Green	2023	CHI
## 794	1015906	-387834.673	1403740.673	Jawun Evans	2018	LAC
## 795	5791499	1819180.252	3972318.748	Jaxson Hayes	2020	NOP
## 796	6042080	2499046.563	3543033.437	Jaxson Hayes	2021	NOP
## 797	7005005	3674650.475	3330354.525	Jaxson Hayes	2023	NOP
## 798	519522	2790963.948	-2271441.948	Jay Scrubb	2022	LAC
## 799	7784070	12665166.582	-4881096.582	Jaylen Brown	2020	BOS
## 800	30049723	18596710.040	11453012.960	Jaylen Brown	2022	BOS
## 801	30660910	20474457.890	10186452.110	Jaylen Brown	2023	BOS
## 802	215454	3492228.535	-3276774.535	Jaylen Hoard	2022	OKC
## 803	93534	1697750.693	-1604216.693	Jaylen Morris	2019	MIL
## 804	1988006	6475925.340	-4487919.340	Jaylen Nowell	2023	MIN
## 805	2059383	2217254.596	-157871.596	Jaylin Williams	2023	OKC
## 806	7031750	9624132.471	-2592382.471	Jayson Tatum	2018	BOS
## 807	8113347	10811714.141	-2698367.141	Jayson Tatum	2019	BOS
## 808	868688	911434.896	-42746.896	Jeff Adrien	2013	CHA
## 809	4055107	7716254.729	-3661147.729	Jeff Foster	2012	IND
## 810	4974923	10214406.275	-5239483.275	Jeff Green	2010	OKC
## 811	6237524	4228160.498	2009363.502	Jeff Green	2011	BOS
## 812	11777156	13062441.872	-1285285.872	Jeff Green	2015	TOT
## 813	11777156	10066573.310	1710582.690	Jeff Green	2015	MEM
## 814	18988768	8428779.808	10559988.192	Jeff Green	2017	ORL
## 815	2636819	8679742.970	-6042923.970	Jeff Green	2018	CLE
## 816	1001088	13290421.419	-12289333.419	Jeff Green	2020	HOU
## 817	5481000	7815642.432	-2334642.432	Jeff McInnis	2004	TOT
## 818	5413466	5263624.284	149841.716	Jeff McInnis	2007	CHA
## 819	1785957	5277363.977	-3491406.977	Jeff McInnis	2008	CHA
## 820	2067291	3160813.624	-1093522.624	Jeff Teague	2011	ATL
## 821	10241005	14664828.510	-4423823.510	Jeff Teague	2015	ATL
## 822	10228345	16586347.733	-6358002.733	Jeff Teague	2016	ATL
## 823	739595	4949024.418	-4209429.418	Jeff Withey	2018	DAL
## 824	1080444	5562868.318	-4482424.318	Jerami Grant	2016	PHI
## 825	2059383	2019082.199	40300.801	Jeremiah Robinson-Earl	2023	OKC
## 826	1516076	3701523.497	-2185447.497	Jeremy Evans	2016	DAL
## 827	12427004	10769673.179	1657330.821	Jeremy Lamb	2021	IND
## 828	11791283	10284941.270	1506341.730	Jeremy Lamb	2022	IND
## 829	662954	-64777.374	727731.374	Jeremy Lin	2011	GSW
## 830	19072513	8060281.364	11012231.636	Jeremy Lin	2015	LAL
## 831	14536856	13657375.950	879480.050	Jeremy Lin	2017	BRK
## 832	1746859	3562178.867	-1815319.867	Jeremy Pargo	2013	CLE
## 833	1245795	685123.536	560671.464	Jeremy Richardson	2008	TOT
## 834	5213864	4929704.067	284159.933	Jeremy Sochan	2023	SAS
## 835	2010330	298625.621	1711704.379	Jerian Grant	2016	NYK
## 836	2125671	720268.685	1405402.315	Jermaine Jackson	2006	MIL
## 837	23797536	19108827.687	4688708.313	Jermaine O'Neal	2005	IND
## 838	27193647	20985146.875	6208500.125	Jermaine O'Neal	2007	IND
## 839	32557332	18926640.908	13630691.092	Jermaine O'Neal	2010	MIA

## 840	8069889	12614421.177	-4544532.177	Jermaine O'Neal	2011	BOS
## 841	1093068	3426053.421	-2332985.421	Jermaine Taylor	2011	TOT
## 842	8774014	8183810.970	590203.030	Jerome James	2005	SEA
## 843	4249749	900277.214	3349471.786	Jerome Robinson	2020	TOT
## 844	4249749	-252745.234	4502494.234	Jerome Robinson	2020	LAC
## 845	4423445	1732678.917	2690766.083	Jerome Robinson	2021	WAS
## 846	9944693	4579247.862	5365445.138	Jerome Williams	2004	TOR
## 847	1827746	15142295.676	-13314549.676	Jerry Stackhouse	2012	ATL
## 848	3209198	2331859.850	877338.150	Jerryd Bayless	2011	NOH
## 849	4112257	6482153.844	-2369896.844	Jerryd Bayless	2012	TOR
## 850	11930116	9894342.776	2035773.224	Jerryd Bayless	2017	PHI
## 851	4612242	1612385.629	2999856.371	Jevon Carter	2022	TOT
## 852	4612242	2034592.177	2577649.823	Jevon Carter	2022	BRK
## 853	3892270	12500961.832	-8608691.832	Jim Jackson	2005	HOU
## 854	3892270	10144223.144	-6251953.144	Jim Jackson	2005	PHO
## 855	4141325	9752088.393	-5610763.393	Jim Jackson	2006	TOT
## 856	3199284	3644104.002	-444820.002	Jimmer Fredette	2013	SAC
## 857	3676138	5080209.081	-1404071.081	Jimmer Fredette	2014	TOT
## 858	24024298	17054474.746	6969823.254	Jimmy Butler	2019	TOT
## 859	24024298	15428811.555	8595486.445	Jimmy Butler	2019	PHI
## 860	39001178	18661846.988	20339331.012	Jimmy Butler	2020	MIA
## 861	24532283	12241903.423	12290379.577	Joakim Noah	2019	MEM
## 862	3350837	1062061.259	2288775.741	Joe Alexander	2009	MIL
## 863	1241145	2528868.090	-1287723.090	Joe Harris	2017	BRK
## 864	1898631	4554520.232	-2655889.232	Joe Harris	2018	BRK
## 865	2658427	4689531.688	-2031104.688	Joe Ingles	2017	UTA
## 866	12265615	10126166.040	2139448.960	Joe Ingles	2021	UTA
## 867	14639567	6029946.194	8609620.806	Joe Ingles	2022	UTA
## 868	13925096	15276067.169	-1350971.169	Joe Johnson	2017	UTA
## 869	9488455	11254842.448	-1766387.448	Joe Smith	2005	MIL
## 870	7614838	13771282.151	-6156444.151	Joe Smith	2008	TOT
## 871	759550	1382670.793	-623120.793	Joel Bolomboy	2017	UTA
## 872	7598318	17160857.745	-9562539.745	Joel Embiid	2018	PHI
## 873	30835818	19591068.098	11244749.902	Joel Embiid	2019	PHI
## 874	34963685	21664184.483	13299500.517	Joel Embiid	2021	PHI
## 875	2244242	1839993.670	404248.330	Joey Graham	2007	TOR
## 876	2291784	811978.028	1479805.972	Joffrey Lauvergne	2015	DEN
## 877	2185949	2722492.780	-536543.780	Joffrey Lauvergne	2016	DEN
## 878	2164363	2280653.614	-116290.614	Joffrey Lauvergne	2017	OKC
## 879	4549373	3463912.242	1085460.758	Johan Petro	2011	NJN
## 880	517977	-2183926.117	2701903.117	John Butler	2023	POR
## 881	4896597	12048938.222	-7152341.222	John Collins	2021	ATL
## 882	3763034	4373220.975	-610186.975	John Henson	2016	MIL
## 883	15529782	6107988.064	9421793.936	John Henson	2017	MIL
## 884	12807226	7141453.438	5665772.562	John Henson	2019	MIL
## 885	11592905	8030731.001	3562173.999	John Henson	2020	DET
## 886	6616459	4338017.479	2278441.521	John Salmons	2007	SAC
## 887	7717796	10333989.194	-2616193.194	John Salmons	2010	CHI
## 888	11198458	14741836.495	-3543378.495	John Salmons	2011	MIL
## 889	10742993	11314055.062	-571062.062	John Salmons	2013	SAC
## 890	7201000	8362772.003	-1161772.003	John Wall	2011	WAS
## 891	7475023	10065131.273	-2590108.273	John Wall	2012	WAS
## 892	9747541	16238943.397	-6491402.397	John Wall	2014	WAS
## 893	93534	7391109.746	-7297575.746	Johnathan Motley	2019	LAC

## 894	1080444	-2168833.206	3249277.206	Johnny O'Bryant	2016	MIL
## 895	496453	4364092.363	-3867639.363	Johnny O'Bryant	2017	TOT
## 896	4982727	10585243.910	-5602516.910	Jon Barry	2004	DEN
## 897	1351702	-1930040.795	3281742.795	Jon Brockman	2012	MIL
## 898	1013398	166442.343	846955.657	Jon Leuer	2013	TOT
## 899	1323292	7646163.064	-6322871.064	Jon Leuer	2016	PHO
## 900	5879944	2540375.660	3339568.340	Jonas Jerebko	2014	DET
## 901	2621970	6996527.979	-4374557.979	Jonas Jerebko	2019	GSW
## 902	849868	3052575.606	-2202707.606	Jonathan Gibson	2017	DAL
## 903	6016576	7050315.368	-1033739.368	Jonathan Isaac	2019	ORL
## 904	6916437	7597858.082	-681421.082	Jonathan Isaac	2020	ORL
## 905	7847101	6614042.719	1233058.281	Jonathon Simmons	2018	ORL
## 906	4200201	8483890.000	-4283689.000	Jonny Flynn	2010	MIN
## 907	4615685	881712.179	3733972.821	Jonny Flynn	2012	TOT
## 908	1720642	1450852.976	269789.024	Jordan Adams	2015	MEM
## 909	1668779	55198.370	1613580.630	Jordan Bell	2019	GSW
## 910	15823973	5150704.470	10673268.530	Jordan Clarkson	2017	LAL
## 911	14401922	7693305.290	6708616.710	Jordan Clarkson	2018	TOT
## 912	13947403	10737712.383	3209690.617	Jordan Clarkson	2022	UTA
## 913	1459047	1769284.862	-310237.862	Jordan Crawford	2011	ATL
## 914	1593739	3279656.461	-1685917.461	Jordan Crawford	2013	BOS
## 915	1505919	2175415.969	-669496.969	Jordan Farmar	2009	LAL
## 916	1612829	3091742.865	-1478913.865	Jordan Hamilton	2014	HOU
## 917	4573289	6636337.471	-2063048.471	Jordan Hill	2014	LAL
## 918	221150	3412252.440	-3191102.440	Jordan McRae	2016	TOT
## 919	1107217	2783381.467	-1676164.467	Jordan McRae	2017	CLE
## 920	2427252	11596955.784	-9169703.784	Jordan Poole	2022	GSW
## 921	59715	-2039291.159	2099006.159	Jordan Schakel	2022	WAS
## 922	4005436	1709286.624	2296149.376	Josh Childress	2005	ATL
## 923	4199680	928726.852	3270953.148	Josh Childress	2006	ATL
## 924	9098747	2720453.470	6378293.530	Josh Childress	2011	PHO
## 925	9160869	1422870.991	7737998.009	Josh Childress	2013	BRK
## 926	302759	2757675.013	-2454916.013	Josh Davis	2006	TOT
## 927	6724400	7493674.659	-769274.659	Josh Giddey	2022	OKC
## 928	3190397	1789934.717	1400462.283	Josh Green	2023	DAL
## 929	531538	-876562.954	1408100.954	Josh Hall	2021	OKC
## 930	13475752	9980924.621	3494827.379	Josh Hart	2022	TOT
## 931	13475752	7927001.796	5548750.204	Josh Hart	2022	NOP
## 932	13475752	10083687.294	3392064.706	Josh Hart	2022	POR
## 933	1389058	8914043.858	-7524985.858	Josh Howard	2005	DAL
## 934	13179527	13231022.013	-51495.013	Josh Howard	2008	DAL
## 935	5620904	6342104.434	-721200.434	Josh Jackson	2022	SAC
## 936	4168228	3816426.182	351801.818	Josh McRoberts	2013	TOT
## 937	3014461	2321026.256	693434.744	Josh Okogie	2020	MIN
## 938	3137570	2472072.384	665497.616	Josh Okogie	2021	MIN
## 939	1356712	2263816.848	-907104.848	Josh Powell	2010	LAL
## 940	94778	-569311.077	664089.077	Josh Reaves	2020	DAL
## 941	1832711	10869407.246	-9036696.246	Josh Richardson	2018	MIA
## 942	12050527	9465427.202	2585099.798	Josh Richardson	2020	PHI
## 943	13043773	7569873.219	5473899.781	Josh Richardson	2022	TOT
## 944	13043773	6538164.578	6505608.422	Josh Richardson	2022	BOS
## 945	16761111	19522662.172	-2761551.172	Josh Smith	2012	ATL
## 946	2142028	3941081.541	-1799053.541	Jrue Holiday	2010	PHI
## 947	14081382	10408149.607	3673232.393	Jrue Holiday	2015	NOP

## 948	31994583	18257736.547	13736846.453	Jrue Holiday	2018	NOP
## 949	35004763	21077801.485	13926961.515	Jrue Holiday	2022	MIL
## 950	2168413	4234616.331	-2066203.331	Juan Dixon	2005	WAS
## 951	3734199	5310091.122	-1575892.122	Juan Dixon	2008	TOR
## 952	3734199	5987441.762	-2253242.762	Juan Dixon	2008	DET
## 953	2196618	1195926.158	1000691.842	Juan Toscano-Anderson	2023	LAL
## 954	1502187	5691796.316	-4189609.316	Jumaine Jones	2007	PHO
## 955	1117895	1286447.223	-168552.223	Junior Harrington	2005	NOH
## 956	1967305	3708024.501	-1740719.501	Justin Anderson	2018	PHI
## 957	500654	4378243.276	-3877589.276	Justin Anderson	2022	TOT
## 958	500654	4567607.216	-4066953.216	Justin Anderson	2022	IND
## 959	1045199	1008751.524	36447.476	Justin Hamilton	2015	TOT
## 960	1045199	-1194513.856	2239712.856	Justin Hamilton	2015	MIA
## 961	101340	-231098.372	332438.372	Justin Holiday	2013	PHI
## 962	1285787	3985618.122	-2699831.122	Justin Holiday	2017	NYK
## 963	5448612	6832306.705	-1383694.705	Justin Holiday	2019	MEM
## 964	1796567	2755990.571	-959423.571	Justin James	2021	SAC
## 965	1006699	17455.031	989243.969	Justin Reed	2006	TOT
## 966	9255861	14519098.475	-5263237.475	Juwan Howard	2006	HOU
## 967	1796567	-716320.620	2512887.620	Juwan Morgan	2021	UTA
## 968	1796567	-1226357.017	3022924.017	KZ Okpala	2021	MIA
## 969	1958610	171202.296	1787407.704	KZ Okpala	2023	SAC
## 970	778354	-1187515.729	1965869.729	Kaniel Dickens	2005	NJN
## 971	1888555	4713780.267	-2825225.267	Kareem Rush	2005	TOT
## 972	9492010	20253200.216	-10761190.216	Karl-Anthony Towns	2019	MIN
## 973	32500982	17205590.755	15295391.245	Karl-Anthony Towns	2020	MIN
## 974	23502224	13675486.318	9826737.682	Kawhi Leonard	2018	SAS
## 975	39001178	26506724.980	12494453.020	Kawhi Leonard	2020	LAC
## 976	43754169	22240144.644	21514024.356	Kawhi Leonard	2023	LAC
## 977	2919280	1003497.278	1915782.722	Kedrick Brown	2004	BOS
## 978	8246224	6515554.087	1730669.913	Keegan Murray	2023	SAC
## 979	1015214	-684909.712	1700123.712	Keita Bates-Diop	2019	MIN
## 980	1687706	1663587.955	24118.045	Keita Bates-Diop	2020	TOT
## 981	1687706	1821824.218	-134118.218	Keita Bates-Diop	2020	DEN
## 982	531538	1752510.734	-1220972.734	Keita Bates-Diop	2021	SAS
## 983	3576558	4841497.294	-1264939.294	Keith Bogans	2009	TOT
## 984	2030050	2804843.301	-774793.301	Keith McLeod	2007	TOT
## 985	24619315	8143093.432	16476221.568	Keith Van Horn	2006	DAL
## 986	4430377	6592674.949	-2162297.949	Kelenna Azubuike	2010	GSW
## 987	2657233	4466452.258	-1809219.258	Kelly Olynyk	2015	BOS
## 988	3540667	13637920.571	-10097253.571	Kemba Walker	2014	CHA
## 989	1171626	822956.881	348669.119	Kendall Marshall	2015	MIL
## 990	6561811	8946661.352	-2384850.352	Kendrick Perkins	2008	BOS
## 991	10371417	11046715.720	-675298.720	Kendrick Perkins	2013	OKC
## 992	11077079	9918792.814	1158286.186	Kendrick Perkins	2014	OKC
## 993	1687706	-1111126.383	2798832.383	Kenrich Williams	2020	NOP
## 994	2059383	4039296.393	-1979913.393	Kenrich Williams	2023	OKC
## 995	995925	4383631.515	-3387706.515	Kent Bazemore	2014	TOT
## 996	2560251	2178183.175	382067.825	Kent Bazemore	2015	ATL
## 997	21903287	11325531.522	10577755.478	Kent Bazemore	2019	ATL
## 998	2745828	9490185.941	-6744357.941	Kent Bazemore	2021	GSW
## 999	3466658	1343692.611	2122965.389	Kentavious Caldwell-Pope	2014	DET
## 1000	14288711	11397990.995	2890720.005	Kentavious Caldwell-Pope	2021	LAL
## 1001	23160447	13082110.995	10078336.005	Kenyon Martin	2011	DEN

## 1002	625531	-1446969.440	2072500.440	Kevin Burleson	2006	CHA
## 1003	6785436	21772955.830	-14987519.830	Kevin Durant	2010	OKC
## 1004	25599330	17988226.826	7611103.174	Kevin Durant	2015	OKC
## 1005	33597587	24705697.296	8891889.704	Kevin Durant	2017	GSW
## 1006	47469914	24171917.765	23297996.235	Kevin Durant	2021	BRK
## 1007	47186357	28526652.573	18659704.427	Kevin Durant	2022	BRK
## 1008	26316377	25186945.354	1129431.646	Kevin Garnett	2011	BOS
## 1009	15361508	17822427.995	-2460919.995	Kevin Garnett	2015	MIN
## 1010	4776432	7682895.999	-2906463.999	Kevin Huerter	2022	ATL
## 1011	14939724	13095740.174	1843983.826	Kevin Huerter	2023	SAC
## 1012	5430814	2339179.390	3091634.610	Kevin Knox	2021	NYK
## 1013	6564912	4332919.102	2231992.898	Kevin Knox	2022	TOT
## 1014	3089075	4669532.151	-1580457.151	Kevin Knox	2023	DET
## 1015	6230944	14209776.766	-7978832.766	Kevin Love	2012	MIN
## 1016	19199855	23875731.996	-4675876.996	Kevin Love	2014	MIN
## 1017	20122376	14548139.857	5574236.143	Kevin Love	2015	CLE
## 1018	28202668	18306107.962	9896560.038	Kevin Love	2018	CLE
## 1019	31464258	14874900.915	16589357.085	Kevin Love	2023	CLE
## 1020	1470546	4564880.289	-3094334.289	Kevin Martin	2006	SAC
## 1021	14400381	11090720.874	3309660.126	Kevin Martin	2010	TOT
## 1022	15571396	12754540.175	2816855.825	Kevin Martin	2012	HOU
## 1023	9464382	12072864.167	-2608482.167	Kevin Martin	2016	TOT
## 1024	1760077	8384062.109	-6623985.109	Kevin Ollie	2009	MIN
## 1025	1762154	-1539897.152	3302051.152	Kevin Pangos	2022	CLE
## 1026	1777172	17906446.640	-16129274.640	Kevin Willis	2004	SAS
## 1027	2090889	14925235.971	-12834346.971	Kevin Willis	2005	ATL
## 1028	1497378	151689.925	1345688.075	Kevon Looney	2017	GSW
## 1029	4862919	5926868.366	-1063949.366	Keyon Dooling	2006	ORL
## 1030	3564181	2592231.428	971949.572	Khem Birch	2021	TOT
## 1031	39865767	19420000.689	20445766.311	Khris Middleton	2022	MIL
## 1032	629693	-720269.232	1349962.232	Kim English	2013	DET
## 1033	3779427	12557862.527	-8778435.527	Kirk Hinrich	2005	CHI
## 1034	3943482	11721279.032	-7777797.032	Kirk Hinrich	2006	CHI
## 1035	16474409	9499145.387	6975263.613	Kirk Hinrich	2008	CHI
## 1036	12598265	9301771.541	3296493.459	Kirk Hinrich	2011	TOT
## 1037	2874422	4764949.257	-1890527.257	Klay Thompson	2012	GSW
## 1038	3937513	17901343.172	-13963830.172	Klay Thompson	2015	GSW
## 1039	22203746	14265084.234	7938661.766	Klay Thompson	2018	GSW
## 1040	42651564	16603310.114	26048253.886	Klay Thompson	2022	GSW
## 1041	3988735	8566422.225	-4577687.225	Kosta Koufos	2013	DEN
## 1042	15679851	11520551.284	4159299.716	Kris Humphries	2014	BOS
## 1043	5676731	12017569.675	-6340838.675	Kris Humphries	2016	TOT
## 1044	11848670	9733938.072	2114731.928	Kurt Thomas	2008	SAS
## 1045	7062318	5556619.071	1505698.929	Kwame Brown	2004	WAS
## 1046	1509075	2452649.263	-943574.263	Kyle Anderson	2017	SAS
## 1047	11249516	15252941.921	-4003425.921	Kyle Anderson	2021	MEM
## 1048	741989	-1898123.330	2640112.330	Kyle Collinsworth	2018	DAL
## 1049	636603	1851624.524	-1215021.524	Kyle Guy	2021	SAC
## 1050	609439	1005271.977	-395832.977	Kyle Korver	2004	PHI
## 1051	6443324	5377182.815	1066141.185	Kyle Korver	2008	UTA
## 1052	6911636	5297959.859	1613676.141	Kyle Korver	2009	UTA
## 1053	6632697	12366510.035	-5733813.035	Kyle Korver	2017	CLE
## 1054	1773145	6230454.493	-4457309.493	Kyle Kuzma	2018	LAL
## 1055	2046063	10032456.055	-7986393.055	Kyle Kuzma	2019	LAL

## 1056	2352077	5062695.251	-2710618.251	Kyle Kuzma	2020	LAL
## 1057	14598731	14018344.089	580386.911	Kyle Kuzma	2022	WAS
## 1058	15342518	22921042.430	-7578524.430	Kyle Lowry	2016	TOR
## 1059	29174601	18289364.929	10885236.071	Kyle Lowry	2023	MIA
## 1060	6123877	1379124.029	4744752.971	Kyle Singler	2017	OKC
## 1061	5812460	6118327.270	-305867.270	Kyle Singler	2018	OKC
## 1062	1124492	317099.185	807392.815	Kyle Weaver	2009	OKC
## 1063	7730009	14683543.003	-6953534.003	Kyrie Irving	2014	CLE
## 1064	20977698	13544476.498	7433221.502	Kyrie Irving	2016	CLE
## 1065	6056045	1053258.375	5002786.625	LaMarcus Aldridge	2007	POR
## 1066	6457883	9985735.434	-3527852.434	LaMarcus Aldridge	2009	POR
## 1067	8267812	10522149.006	-2254337.006	LaMarcus Aldridge	2010	POR
## 1068	18423825	18675700.115	-251875.115	LaMarcus Aldridge	2014	POR
## 1069	26731225	22435326.887	4295898.113	LaMarcus Aldridge	2018	SAS
## 1070	27057829	21717780.242	5340048.758	LaMarcus Aldridge	2019	SAS
## 1071	20863567	17582469.476	3281097.524	LaMarcus Aldridge	2021	TOT
## 1072	20863567	17282333.394	3581233.606	LaMarcus Aldridge	2021	SAS
## 1073	2966564	17713708.151	-14747144.151	LaMarcus Aldridge	2022	BRK
## 1074	9244096	15874187.217	-6630091.217	LaMelo Ball	2022	CHO
## 1075	17985482	14784937.311	3200544.689	Lamar Odom	2006	LAL
## 1076	19728373	13140694.963	6587678.037	Lamar Odom	2009	LAL
## 1077	1183524	-122433.549	1305957.549	Lamar Stevens	2021	CLE
## 1078	1813414	4936931.937	-3123517.937	Lance Stephenson	2022	ATL
## 1079	8620492	5132751.491	3487740.509	Lance Thomas	2019	NYK
## 1080	1030260	6154368.815	-5124108.815	Landry Fields	2012	NYK
## 1081	6647892	1280997.962	5366894.038	Landry Fields	2013	TOR
## 1082	378219	3096482.395	-2718263.395	Langston Galloway	2015	NYK
## 1083	6582773	2509069.709	4073703.291	Langston Galloway	2017	TOT
## 1084	8475619	3088251.738	5387367.262	Langston Galloway	2019	DET
## 1085	1169058	3635586.017	-2466528.017	Laron Profit	2006	LAL
## 1086	17572826	11943052.273	5629773.727	Larry Hughes	2008	CLE
## 1087	17572826	11311343.994	6261482.006	Larry Hughes	2008	CHI
## 1088	19316088	12031252.027	7284835.973	Larry Hughes	2010	TOT
## 1089	77994	-315748.850	393742.850	Larry Owens	2011	SAS
## 1090	2648201	7207104.997	-4558903.997	Larry Sanders	2013	MIL
## 1091	4760126	8845427.468	-4085301.468	Lauri Markkanen	2018	CHI
## 1092	3988735	294423.478	3694311.522	Lavoy Allen	2013	PHI
## 1093	625531	-940921.584	1566452.584	Lawrence Roberts	2006	MEM
## 1094	998798	667152.690	331645.310	Lawrence Roberts	2007	MEM
## 1095	1429147	835360.206	593786.794	Lazar Hayward	2011	MIN
## 1096	6675060	13497877.743	-6822817.743	LeBron James	2004	CLE
## 1097	46244900	34508479.955	11736420.045	LeBron James	2022	LAL
## 1098	2525882	8742359.253	-6216477.253	Leandro Barbosa	2007	PHO
## 1099	8200595	7201478.789	999116.211	Leandro Barbosa	2008	PHO
## 1100	849794	9819574.614	-8969780.614	Leandro Barbosa	2014	PHO
## 1101	1282016	9418418.967	-8136402.967	Leon Powe	2011	MEM
## 1102	2573402	9230645.254	-6657243.254	Lindsey Hunter	2005	DET
## 1103	415818	3565069.667	-3149251.667	Linton Johnson	2008	TOT
## 1104	1057465	718456.957	339008.043	Lonny Baxter	2004	TOR
## 1105	1057465	520952.617	536512.383	Lonny Baxter	2004	WAS
## 1106	20892639	9080643.961	11811995.039	Lonzo Ball	2022	CHI
## 1107	10962000	8979782.744	1982217.256	Lorenzen Wright	2004	MEM
## 1108	968642	2722725.374	-1754083.374	Lorenzo Brown	2019	TOR
## 1109	5995431	2378043.749	3617387.251	Luc Mbah a Moute	2014	SAC

## 1110	4152272	8121262.805	-3968990.805	Lucious Harris	2004	NJN
## 1111	185401	959391.724	-773990.724	Luguentz Dort	2020	OKC
## 1112	2001846	9354160.828	-7352314.828	Luguentz Dort	2022	OKC
## 1113	4261380	3704746.894	556633.106	Luis Scola	2008	HOU
## 1114	11613548	9766522.055	1847025.945	Luis Scola	2012	HOU
## 1115	2515934	1294005.998	1221928.002	Luke Babbitt	2013	POR
## 1116	1255910	3872268.612	-2616358.612	Luke Babbitt	2015	NOP
## 1117	3067027	720792.093	2346234.907	Luke Jackson	2006	CLE
## 1118	3205946	2743446.360	462499.640	Luke Jackson	2007	TOR
## 1119	409173	3401456.672	-2992283.672	Luke Jackson	2008	MIA
## 1120	3436880	1444794.150	1992085.850	Luke Kennard	2018	DET
## 1121	4558785	5861702.800	-1302917.800	Luke Kennard	2020	DET
## 1122	14989221	5992299.648	8996921.352	Luke Kennard	2022	LAC
## 1123	14153581	6391764.862	7761816.138	Luke Kennard	2023	TOT
## 1124	14153581	6572912.964	7580668.036	Luke Kennard	2023	MEM
## 1125	96220	1714620.089	-1618400.089	Luke Kornet	2018	NYK
## 1126	912267	2613811.162	-1701544.162	Luke Kornet	2022	TOT
## 1127	2365798	286822.043	2078975.957	Luke Ridnour	2004	SEA
## 1128	997267	-184944.846	1182211.846	Luke Walton	2005	LAL
## 1129	6846432	3753873.739	3092558.261	Luke Walton	2010	LAL
## 1130	14669507	13601159.502	1068347.498	Luol Deng	2010	CHI
## 1131	18700999	13876636.472	4824362.528	Luol Deng	2014	CHI
## 1132	12435731	14671009.871	-2235278.871	Luol Deng	2015	MIA
## 1133	1643047	4796911.006	-3153864.006	Luther Head	2008	HOU
## 1134	2736280	2872645.387	-136365.387	Luther Head	2009	HOU
## 1135	2736280	1453681.060	1282598.940	Luther Head	2009	MIA
## 1136	998798	689820.750	308977.250	Lynn Greer	2007	MIL
## 1137	2308582	2054678.413	253903.587	Malachi Flynn	2021	TOR
## 1138	1874037	193309.159	1680727.841	Malachi Richardson	2018	SAC
## 1139	1870631	10527452.785	-8656821.785	Malcolm Brogdon	2019	MIL
## 1140	23823333	11653484.745	12169848.255	Malcolm Brogdon	2020	IND
## 1141	3164794	-1120984.691	4285778.691	Malcolm Delaney	2017	ATL
## 1142	3113929	844940.675	2268988.325	Malcolm Delaney	2018	ATL
## 1143	364263	29173.524	335089.476	Malcolm Hill	2022	TOT
## 1144	364263	1503824.847	-1139561.847	Malcolm Hill	2022	ATL
## 1145	364263	-5893.128	370156.128	Malcolm Hill	2022	CHI
## 1146	675851	-1245272.193	1921123.193	Malcolm Lee	2012	MIN
## 1147	16019980	9212642.003	6807337.997	Malik Beasley	2023	LAL
## 1148	3617737	2803553.617	814183.383	Malik Monk	2018	CHO
## 1149	4174218	4274747.701	-100529.701	Malik Monk	2019	CHO
## 1150	8785755	7207804.422	1577950.578	Malik Rose	2005	NYK
## 1151	10663442	10704935.747	-41493.747	Malik Rose	2009	OKC
## 1152	166181	2348010.204	-2181829.204	Manny Harris	2012	CLE
## 1153	1668022	4406990.946	-2738968.946	MarShon Brooks	2014	BOS
## 1154	25173237	14750197.751	10423039.249	Marc Gasol	2016	MEM
## 1155	3035447	13998603.694	-10963156.694	Marc Gasol	2021	LAL
## 1156	7137511	4751148.576	2386362.424	Marc Jackson	2006	TOT
## 1157	671354	-2366502.117	3037856.117	Marcelo Huertas	2016	LAL
## 1158	3593299	9297345.252	-5704046.252	Marco Belinelli	2014	SAS
## 1159	2490367	380663.428	2109703.572	Marcus Banks	2004	BOS
## 1160	2704850	5021483.199	-2316633.199	Marcus Banks	2006	MIN
## 1161	5808081	4794100.263	1013980.737	Marcus Banks	2008	PHO
## 1162	10821324	11835236.961	-1013912.961	Marcus Camby	2010	POR
## 1163	16447500	15068294.758	1379205.242	Marcus Camby	2011	POR

## 1164	1183700	4130088.276	-2946388.276	Marcus Fizer	2005	MIL
## 1165	17615244	12805910.569	4809333.431	Marcus Morris	2021	LAC
## 1166	4530568	4242673.959	287894.041	Marcus Smart	2017	BOS
## 1167	13513426	9000257.968	4513168.032	Marcus Smart	2019	BOS
## 1168	15322411	9885526.202	5436884.798	Marcus Smart	2021	BOS
## 1169	1066926	6984889.146	-5917963.146	Marcus Thornton	2011	TOT
## 1170	1066926	4058488.633	-2991562.633	Marcus Thornton	2011	NOH
## 1171	10668832	7020849.456	3647982.544	Marcus Thornton	2014	BRK
## 1172	11133893	8436808.693	2697084.307	Marcus Thornton	2015	TOT
## 1173	1837127	9496743.409	-7659616.409	Marcus Thornton	2016	WAS
## 1174	1006705	2614068.654	-1607363.654	Marcus Vinicius	2008	NOH
## 1175	1650926	1091025.634	559900.366	Marcus Williams	2007	NJN
## 1176	1747151	2122655.951	-375504.951	Marcus Williams	2008	NJN
## 1177	1760419	-28020.197	1788439.197	Marcus Williams	2009	GSW
## 1178	2642018	1207192.856	1434825.144	Mardy Collins	2010	LAC
## 1179	94778	2677081.036	-2582303.036	Marial Shayok	2020	PHI
## 1180	976058	6098555.607	-5122497.607	Mario Chalmers	2009	MIA
## 1181	5497735	10171842.725	-4674107.725	Mario Chalmers	2016	MEM
## 1182	2623680	8274808.129	-5651128.129	Mario Chalmers	2018	MEM
## 1183	4949536	1010367.997	3939168.003	Mario Hezonja	2017	ORL
## 1184	625534	-1806000.196	2431534.196	Mario West	2008	ATL
## 1185	992117	-1531202.179	2523319.179	Mario West	2009	ATL
## 1186	11871546	7949872.584	3921673.416	Mark Blount	2009	MIA
## 1187	1102310	-649426.100	1751736.100	Mark Madsen	2004	MIN
## 1188	649453	1501991.179	-852538.179	Markel Brown	2015	BRK
## 1189	8751685	1518791.003	7232893.997	Markelle Fultz	2018	PHI
## 1190	18529159	7964180.965	10564978.035	Markelle Fultz	2022	ORL
## 1191	4037337	12223797.774	-8186460.774	Markieff Morris	2015	PHO
## 1192	10228345	8446978.169	1781366.831	Markieff Morris	2016	PHO
## 1193	2150954	963786.484	1187167.516	Marreese Speights	2009	PHI
## 1194	4878281	10420573.834	-5542292.834	Marreese Speights	2016	GSW
## 1195	6144814	7838175.413	-1693361.413	Martell Webster	2010	POR
## 1196	11018881	9131423.933	1887457.067	Marvin Williams	2013	UTA
## 1197	8949802	17220227.827	-8270425.827	Marvin Williams	2016	CHO
## 1198	502457	3678674.231	-3176217.231	Mason Jones	2021	TOT
## 1199	1696873	2507356.620	-810483.620	Mason Plumlee	2014	BRK
## 1200	1809803	9535826.508	-7726023.508	Mason Plumlee	2016	POR
## 1201	2947727	4537183.984	-1589456.984	Mason Plumlee	2017	DEN
## 1202	3075782	734734.732	2341047.268	Matisse Thybulle	2020	PHI
## 1203	1072762	-26232.008	1098994.008	Matt Barnes	2006	PHI
## 1204	4529239	14885045.198	-10355806.198	Matt Barnes	2016	MEM
## 1205	8239037	12176075.625	-3937038.625	Matt Barnes	2017	TOT
## 1206	4480893	5966170.123	-1485277.123	Matt Bonner	2012	SAS
## 1207	579710	-534472.624	1114182.624	Matt Carroll	2004	TOT
## 1208	7041566	4639396.243	2402169.757	Matt Carroll	2009	CHA
## 1209	6648395	6568389.194	80005.806	Matt Carroll	2010	DAL
## 1210	5271639	4851419.293	420219.707	Matt Carroll	2012	CHA
## 1211	2573358	2689311.459	-115953.459	Matthew Dellavedova	2021	CLE
## 1212	1453546	2466725.628	-1013179.628	Maurice Ager	2009	NJN
## 1213	1117895	-50681.208	1168576.208	Maurice Evans	2005	SAC
## 1214	3499518	5130578.418	-1631060.418	Maurice Evans	2011	TOT
## 1215	2705222	-195120.226	2900342.226	Melvin Ely	2004	LAC
## 1216	1687706	1015566.477	672139.523	Melvin Frazier	2020	ORL
## 1217	11317628	17539853.156	-6222225.156	Metta World Peace	2007	SAC

## 1218	1916775	12850625.319	-10933850.319	Metta World Peace	2016	LAL
## 1219	13444120	8903436.738	4540683.262	Meyers Leonard	2020	MIA
## 1220	2878748	1419668.590	1459079.410	Mfiondu Kabengele	2021	TOT
## 1221	2878748	1926739.184	952008.816	Mfiondu Kabengele	2021	CLE
## 1222	1158104	1334288.622	-176184.622	Michael Bradley	2005	TOT
## 1223	23497373	13407699.094	10089673.906	Michael Finley	2005	DAL
## 1224	3536380	10459130.926	-6922750.926	Michael Finley	2010	SAS
## 1225	15740437	4560907.735	11179529.265	Michael Kidd-Gilchrist	2019	CHO
## 1226	708889	3929114.199	-3220225.199	Michael Kidd-Gilchrist	2020	TOT
## 1227	708889	2187318.126	-1478429.126	Michael Kidd-Gilchrist	2020	DAL
## 1228	21262971	16807702.740	4455268.260	Michael Redd	2008	MIL
## 1229	22003153	14408471.869	7594681.131	Michael Redd	2009	MIL
## 1230	1198314	-1329836.070	2528150.070	Michael Ruffin	2005	WAS
## 1231	20892681	18115284.275	2777396.725	Mike Bibby	2009	ATL
## 1232	1827746	8850807.804	-7023061.804	Mike Bibby	2012	NYK
## 1233	8936877	10187631.643	-1250754.643	Mike Conley	2012	MEM
## 1234	11213901	16132032.154	-4918131.154	Mike Conley	2015	MEM
## 1235	12376298	14842590.900	-2466292.900	Mike Conley	2016	MEM
## 1236	36955053	23503811.519	13451241.481	Mike Conley	2019	MEM
## 1237	40834109	20891001.919	19943107.081	Mike Conley	2021	UTA
## 1238	23353409	16177734.550	7175674.450	Mike Conley	2023	UTA
## 1239	11184847	8734195.846	2450651.154	Mike Dunleavy	2007	TOT
## 1240	11184847	7961697.021	3223149.979	Mike Dunleavy	2007	IND
## 1241	12035849	14818709.983	-2782860.983	Mike Dunleavy	2008	IND
## 1242	4985919	9915226.451	-4929307.451	Mike Dunleavy	2013	MIL
## 1243	6123877	11312675.529	-5188798.529	Mike Dunleavy	2017	CLE
## 1244	8706573	8361465.020	345107.980	Mike James	2009	TOT
## 1245	375186	9850536.246	-9475350.246	Mike James	2012	CHI
## 1246	1057546	9635727.102	-8578181.102	Mike James	2013	DAL
## 1247	12589171	11045645.935	1543525.065	Mike Miller	2009	MIN
## 1248	1045199	1955218.063	-910019.063	Mike Muscala	2015	ATL
## 1249	6227858	4760100.510	1467757.490	Mike Muscala	2018	ATL
## 1250	629693	2504161.693	-1874468.693	Mike Scott	2013	ATL
## 1251	5678291	5670761.471	7529.529	Mike Scott	2020	PHI
## 1252	3057401	184664.706	2872736.294	Mike Sweetney	2004	NYK
## 1253	1169058	159750.846	1009307.154	Mike Wilks	2006	CLE
## 1254	248831	3932279.813	-3683448.813	Mike Wilks	2010	OKC
## 1255	1610844	9351834.881	-7740990.881	Mikki Moore	2007	NJN
## 1256	4656363	5035520.529	-379157.529	Miles Bridges	2021	CHO
## 1257	1298837	2793890.126	-1495053.126	Milt Palacio	2005	TOR
## 1258	7064503	5634634.228	1429868.772	Mo Bamba	2021	ORL
## 1259	10605825	5727074.838	4878750.162	Mo Bamba	2023	TOT
## 1260	703965	1536200.648	-832235.648	Monta Ellis	2006	GSW
## 1261	15338066	7903252.101	7434813.899	Monta Ellis	2009	GSW
## 1262	15560073	14639716.022	920356.978	Monta Ellis	2010	GSW
## 1263	10923629	16903313.680	-5979684.680	Monta Ellis	2014	DAL
## 1264	13168995	18809158.882	-5640163.882	Monta Ellis	2016	IND
## 1265	1633836	2249913.842	-616077.842	Monte Morris	2019	DEN
## 1266	9488135	9262949.918	225185.082	Monte Morris	2022	DEN
## 1267	10916370	8972643.169	1943726.831	Montrezl Harrell	2022	TOT
## 1268	2536635	8340073.406	-5803438.406	Montrezl Harrell	2023	PHI
## 1269	5813181	3222380.991	2590800.009	Moochie Norris	2004	HOU
## 1270	6588471	7382553.502	-794082.502	Moochie Norris	2006	NOK
## 1271	2821420	5390165.890	-2568745.890	Moritz Wagner	2021	TOT

## 1272	2821420	64072.156	2757347.844	Moritz Wagner	2021	BOS
## 1273	2733987	4690518.664	-1956531.664	Morris Peterson	2004	TOR
## 1274	7843283	11662166.585	-3818883.585	Morris Peterson	2008	NOH
## 1275	194073	2034801.746	-1840728.746	Moses Wright	2022	DAL
## 1276	125520	89994.677	35525.323	Mustafa Shakur	2011	WAS
## 1277	289618	1450429.471	-1160811.471	Mychal Mulder	2022	ORL
## 1278	337391	-325726.002	663117.002	Myles Powell	2022	PHI
## 1279	3989588	13789802.880	-9800214.880	Myles Turner	2019	IND
## 1280	1835550	4080603.558	-2245053.558	Naji Marshall	2023	NOP
## 1281	1911635	2416682.538	-505047.538	Nando De Colo	2014	SAS
## 1282	1911635	1136327.519	775307.481	Nando De Colo	2014	TOR
## 1283	5658208	7321096.121	-1662888.121	Nate Robinson	2010	NYK
## 1284	7411799	7908651.058	-496852.058	Nate Robinson	2012	GSW
## 1285	1524144	12778677.113	-11254533.113	Nate Robinson	2013	CHI
## 1286	2696866	9200406.591	-6503540.591	Nate Robinson	2015	DEN
## 1287	5068884	9071639.699	-4002755.699	Nazr Mohammed	2012	OKC
## 1288	5050245	-1583646.449	6633891.449	Nemanja Bjelica	2016	MIN
## 1289	8462198	5046627.651	3415570.349	Nemanja Bjelica	2021	MIA
## 1290	12945225	4904380.722	8040844.278	Nenê	2008	DEN
## 1291	14881088	14629109.488	251978.512	Nenê	2010	DEN
## 1292	17572132	13887817.393	3684314.607	Nenê	2012	TOT
## 1293	17572132	12774159.459	4797972.541	Nenê	2012	DEN
## 1294	16621062	15189606.676	1431455.324	Nenê	2016	WAS
## 1295	3668630	15264097.300	-11595467.300	Nenê	2017	HOU
## 1296	5550404	5526619.372	23784.628	Nerlens Noel	2017	TOT
## 1297	5550404	5102090.859	448313.141	Nerlens Noel	2017	PHI
## 1298	2242808	6836181.897	-4593373.897	Nerlens Noel	2020	OKC
## 1299	3167986	-2144278.792	5312264.792	Nick Collison	2005	SEA
## 1300	649453	-627467.490	1276920.490	Nick Johnson	2015	HOU
## 1301	19193160	12460505.000	6732655.000	Nick Van Exel	2005	POR
## 1302	4995699	9229278.849	-4233579.849	Nick Young	2012	WAS
## 1303	6393485	10143426.830	-3749941.830	Nick Young	2015	LAL
## 1304	3531618	2402743.712	1128874.288	Nickeil Alexander-Walker	2020	NOP
## 1305	3662574	3022379.853	640194.147	Nickeil Alexander-Walker	2022	UTA
## 1306	5158377	5098914.367	59462.633	Nickeil Alexander-Walker	2023	UTA
## 1307	5158377	3517475.596	1640901.404	Nickeil Alexander-Walker	2023	MIN
## 1308	531538	527075.395	4462.605	Nico Mannion	2021	GSW
## 1309	2913412	8468993.034	-5555581.034	Nicolas Batum	2012	POR
## 1310	13738622	13728965.049	9656.951	Nicolas Batum	2021	LAC
## 1311	241056	-1946660.379	2187716.379	Nigel Hayes	2018	TOT
## 1312	241056	-1280421.827	1521477.827	Nigel Hayes	2018	LAL
## 1313	3515020	-1864951.925	5379971.925	Nik Stauskas	2015	SAC
## 1314	4742073	2644967.030	2097105.970	Nik Stauskas	2018	TOT
## 1315	1169058	3916399.438	-2747341.438	Nikoloz Tskitishvili	2006	PHO
## 1316	5020921	3087071.323	1933849.677	Noah Vonleh	2018	TOT
## 1317	1963213	7825850.399	-5862637.399	Noah Vonleh	2019	NYK
## 1318	11341832	4996266.354	6345565.646	Norman Powell	2019	TOR
## 1319	12860117	9219099.761	3641017.239	Norman Powell	2021	POR
## 1320	417133	-739686.902	1156819.902	Norvel Pelle	2020	PHI
## 1321	2049214	3639085.944	-1589871.944	OG Anunoby	2018	TOR
## 1322	2364407	857364.866	1507042.134	OG Anunoby	2019	TOR
## 1323	17872507	13425760.309	4446746.691	OG Anunoby	2023	TOR
## 1324	5754342	483735.198	5270606.802	Obi Toppin	2021	NYK
## 1325	5732989	5262490.440	470498.560	Obi Toppin	2022	NYK

## 1326	1970778	954381.658	1016396.342	Oleksiy Pecherov	2008	WAS
## 1327	250805	136827.668	113977.332	Olivier Sarr	2022	OKC
## 1328	1672189	2280907.769	-608718.769	Omer Yurtseven	2022	MIA
## 1329	1238586	4466115.337	-3227529.337	Omri Casspi	2014	HOU
## 1330	3987038	4855027.974	-867989.974	Omri Casspi	2017	TOT
## 1331	3987038	5708448.090	-1721410.090	Omri Casspi	2017	SAC
## 1332	1030782	-442986.578	1473768.578	Orlando Johnson	2014	TOT
## 1333	142484	2668147.251	-2525663.251	Orlando Johnson	2016	PHO
## 1334	397517	-1234882.739	1632399.739	Orlando Robinson	2023	MIA
## 1335	93534	1743586.915	-1650052.915	PJ Dozier	2019	BOS
## 1336	11383366	11566750.454	-183384.454	Paolo Banchero	2023	ORL
## 1337	662954	849099.063	-186145.063	Pape Sy	2011	ATL
## 1338	36167554	13649119.097	22518434.903	Pascal Siakam	2021	TOR
## 1339	37062738	17418611.587	19644126.413	Pascal Siakam	2022	TOR
## 1340	1832711	271769.875	1560941.125	Pat Connaughton	2018	POR
## 1341	4724605	4252214.220	472390.780	Pat Garrity	2005	ORL
## 1342	1171626	5973995.893	-4802369.893	Patrick Beverley	2015	HOU
## 1343	8293252	6978643.402	1314608.598	Patrick Beverley	2016	HOU
## 1344	7595507	8750562.095	-1155055.095	Patrick Beverley	2017	HOU
## 1345	1634951	-754662.650	2389613.650	Patrick McCaw	2018	GSW
## 1346	2291574	4319966.360	-2028392.360	Patrick O'Bryant	2010	TOR
## 1347	2787806	1465108.274	1322697.726	Patrick Patterson	2013	SAC
## 1348	4057554	4492756.050	-435202.050	Patrick Patterson	2014	TOR
## 1349	7464830	3528104.211	3936725.789	Patrick Patterson	2015	TOR
## 1350	8014772	3143393.592	4871378.408	Patrick Patterson	2016	TOR
## 1351	6467007	4706831.394	1760175.606	Patrick Patterson	2018	OKC
## 1352	8006265	7278748.675	727516.325	Patrick Williams	2023	CHI
## 1353	4348916	13376962.875	-9028046.875	Pau Gasol	2004	MEM
## 1354	17244541	19202713.624	-1958172.624	Pau Gasol	2006	MEM
## 1355	20113423	14671893.982	5441529.018	Pau Gasol	2008	TOT
## 1356	20113423	11959530.144	8153892.856	Pau Gasol	2008	MEM
## 1357	20113423	11449174.996	8664248.004	Pau Gasol	2008	LAL
## 1358	21063348	16485330.636	4578017.364	Pau Gasol	2009	LAL
## 1359	23272212	16974429.415	6297782.585	Pau Gasol	2010	LAL
## 1360	25199938	21009212.547	4190725.453	Pau Gasol	2014	LAL
## 1361	20745029	15621988.494	5123040.506	Pau Gasol	2019	TOT
## 1362	3252520	10268331.222	-7015811.222	Paul George	2012	IND
## 1363	3422494	16375375.502	-12952881.502	Paul George	2013	IND
## 1364	24039532	20072007.763	3967524.237	Paul George	2018	OKC
## 1365	41956422	22742766.181	19213655.819	Paul George	2021	LAC
## 1366	1112122	6120798.865	-5008676.865	Paul Millsap	2009	UTA
## 1367	10638535	12833223.833	-2194688.833	Paul Millsap	2011	UTA
## 1368	9572964	15312814.960	-5739850.960	Paul Millsap	2013	UTA
## 1369	12413215	19208346.867	-6795131.867	Paul Millsap	2014	ATL
## 1370	11953594	17018024.170	-5064430.170	Paul Millsap	2021	DEN
## 1371	2966564	12677836.123	-9711272.123	Paul Millsap	2022	TOT
## 1372	18811820	18792378.877	19441.123	Paul Pierce	2004	BOS
## 1373	94778	825349.663	-730571.663	Paul Watson	2020	TOT
## 1374	2400301	3098100.805	-697799.805	Payton Pritchard	2022	BOS
## 1375	1296623	1111087.925	185535.075	Phil Pressey	2016	TOT
## 1376	4101359	2927323.939	1174035.061	Predrag Drobnjak	2005	ATL
## 1377	3754085	4993258.069	-1239173.069	Quincy Acy	2017	BRK
## 1378	509992	741548.844	-231556.844	Quincy Miller	2015	TOT
## 1379	1559594	-747785.138	2307379.138	Quincy Pondexter	2012	MEM

## 1380	4027362	3081964.404	945397.596	Quincy Pondexter	2015	TOT
## 1381	2621970	5588011.899	-2966041.899	Quincy Pondexter	2019	SAS
## 1382	2345329	7326705.691	-4981376.691	Quinn Cook	2021	LAL
## 1383	2345329	5812346.933	-3467017.933	Quinn Cook	2021	CLE
## 1384	94778	-2921652.862	3016430.862	Quinnndary Weatherspoon	2020	SAS
## 1385	997267	-1426094.018	2423361.018	Quinton Ross	2005	LAC
## 1386	1209655	3058361.311	-1848706.311	Quinton Ross	2008	LAC
## 1387	9684484	12121246.114	-2436762.114	RJ Barrett	2022	NYK
## 1388	6315711	15007584.157	-8691873.157	Rafer Alston	2007	HOU
## 1389	6662983	15525120.313	-8862137.313	Rafer Alston	2008	HOU
## 1390	6832411	12592836.916	-5760425.916	Rafer Alston	2009	ORL
## 1391	6022	2607417.469	-2601395.469	RaiQuan Gray	2023	BRK
## 1392	6971848	11004376.530	-4032528.530	Raja Bell	2009	TOT
## 1393	7847100	13366913.037	-5519813.037	Rajon Rondo	2018	NOP
## 1394	10897225	12551301.350	-1654076.350	Rajon Rondo	2019	LAL
## 1395	8422344	12229788.470	-3807444.470	Rajon Rondo	2022	TOT
## 1396	5549284	8272461.579	-2723177.579	Ramon Sessions	2011	CLE
## 1397	6533271	7838227.128	-1304956.128	Ramon Sessions	2014	MIL
## 1398	2658821	5811948.362	-3153127.362	Ramon Sessions	2015	SAC
## 1399	3719852	9894216.721	-6174364.721	Ramon Sessions	2018	WAS
## 1400	3681518	3072061.583	609456.417	Randy Foye	2007	MIN
## 1401	3919962	14300551.853	-10380589.853	Randy Foye	2014	DEN
## 1402	4008233	6524717.870	-2516484.870	Randy Foye	2016	OKC
## 1403	3164794	9851979.755	-6687185.755	Randy Foye	2017	BRK
## 1404	3653424	6338969.102	-2685545.102	Rashad McCants	2009	SAC
## 1405	11647933	13133081.718	-1485148.718	Rashard Lewis	2004	SEA
## 1406	22934412	21383251.159	1551160.841	Rashard Lewis	2009	ORL
## 1407	27399423	13290732.290	14108690.710	Rashard Lewis	2011	ORL
## 1408	28235454	16552666.841	11682787.159	Rasheed Wallace	2004	TOT
## 1409	4511222	7120208.813	-2608986.813	Rasual Butler	2007	NOK
## 1410	3359537	5560536.422	-2200999.422	Rasual Butler	2011	LAC
## 1411	1916775	9790936.240	-7874161.240	Rasual Butler	2016	SAS
## 1412	1111222	627547.763	483674.237	Raul Neto	2017	UTA
## 1413	93534	-247768.300	341302.300	Rawle Alkins	2019	CHI
## 1414	4219251	14880241.298	-10660990.298	Ray Allen	2014	MIA
## 1415	1376681	1331380.748	45300.252	Ray McCallum	2016	TOT
## 1416	1376681	1713005.855	-336324.855	Ray McCallum	2016	MEM
## 1417	7781728	12298583.329	-4516855.329	Raymond Felton	2010	CHA
## 1418	10498554	10480377.735	18176.265	Raymond Felton	2011	TOT
## 1419	2900502	11881150.534	-8980648.534	Raymond Felton	2018	OKC
## 1420	2339608	-1015294.997	3354902.997	Reece Gaines	2005	TOT
## 1421	2441122	-136637.263	2577759.263	Reece Gaines	2006	MIL
## 1422	1537072	-1346218.353	2883290.353	Reggie Bullock	2015	TOT
## 1423	1601247	540047.371	1061199.629	Reggie Bullock	2016	DET
## 1424	4970801	11170825.681	-6200024.681	Reggie Bullock	2021	NYK
## 1425	10708731	8505795.087	2202935.913	Reggie Bullock	2022	DAL
## 1426	1415371	4653310.150	-3237939.150	Reggie Evans	2005	SEA
## 1427	2977162	9097427.992	-6120265.992	Reggie Jackson	2015	TOT
## 1428	17788428	16085128.666	1703299.334	Reggie Jackson	2016	DET
## 1429	18933728	11851666.357	7082061.643	Reggie Jackson	2017	DET
## 1430	8846070	21770692.256	-12924622.256	Reggie Miller	2005	IND
## 1431	578918	1051062.035	-472144.035	Reggie Perry	2021	BRK
## 1432	211425	4420282.650	-4208857.650	Reggie Perry	2022	POR
## 1433	2447110	5530777.269	-5286067.269	Reggie Williams	2017	NOP

## 1434	17497591	14844137.288	2653453.712	Richard Hamilton	2011	DET
## 1435	17865582	14588028.759	3277553.241	Richard Jefferson	2008	NJN
## 1436	1854249	12448281.114	-10594032.114	Richard Jefferson	2015	DAL
## 1437	1128468	1204463.730	-75995.730	Richie Frahm	2006	TOT
## 1438	1351446	4832096.972	-3480650.972	Rick Brunson	2004	TOT
## 1439	1351446	4810820.172	-3459374.172	Rick Brunson	2004	CHI
## 1440	1615545	5083955.648	-3468410.648	Rick Brunson	2006	TOT
## 1441	3207050	7608394.233	-4401344.233	Ricky Davis	2009	LAC
## 1442	19296899	14148502.439	5148396.561	Ricky Rubio	2020	PHO
## 1443	1126510	-1454321.038	2580831.038	Robbie Hummel	2015	MIN
## 1444	20798683	13822034.389	6976648.611	Robert Covington	2018	PHI
## 1445	14571186	11365497.085	3205688.915	Robert Covington	2022	TOT
## 1446	14571186	9704731.078	4866454.922	Robert Covington	2022	POR
## 1447	4984900	12600727.172	-7615827.172	Robert Horry	2007	SAS
## 1448	4112323	8332739.934	-4220416.934	Robert Williams	2022	BOS
## 1449	11032413	4983637.420	6048775.580	Robert Williams	2023	BOS
## 1450	2264065	-527747.133	2791812.133	Robin Lopez	2009	PHO
## 1451	17384404	11391197.537	5993206.463	Robin Lopez	2019	CHI
## 1452	1473752	12463822.462	-10990070.462	Rod Strickland	2004	TOT
## 1453	2106853	1081116.523	1025736.477	Rodions Kurucs	2021	TOT
## 1454	1198314	4288983.073	-3090669.073	Rodney Buford	2005	NJN
## 1455	912494	4186342.800	-3273848.800	Rodney Carney	2011	GSW
## 1456	4204981	4326798.254	-121817.254	Rodney Hood	2019	POR
## 1457	11891400	2992209.569	8899190.431	Rodney Hood	2021	TOT
## 1458	11891400	4745898.142	7145501.858	Rodney Hood	2021	TOR
## 1459	11489471	9373300.492	2116170.508	Rodney Stuckey	2012	DET
## 1460	8949802	8390956.820	558845.180	Rodney Stuckey	2016	IND
## 1461	1618289	6080264.237	-4461975.237	Rodrigue Beaubois	2011	DAL
## 1462	1959730	3123487.049	-1163757.049	Roger Mason	2011	NYK
## 1463	1549506	7097719.720	-5548213.720	Roger Mason	2012	WAS
## 1464	1634390	6547988.468	-4913598.468	Roger Mason	2013	NOH
## 1465	620620	-2010462.516	2631082.516	Roger Powell	2007	UTA
## 1466	4272217	1043470.950	3228746.050	Romeo Langford	2022	TOT
## 1467	5801548	3339754.453	2461793.547	Romeo Langford	2023	SAS
## 1468	2767700	8350651.107	-5582951.107	Ronald Murray	2008	TOT
## 1469	2091554	8879520.008	-6787966.008	Ronald Murray	2009	ATL
## 1470	2814958	8150370.305	-5335412.305	Ronald Murray	2010	TOT
## 1471	1707468	827193.271	880274.729	Rondae Hollis-Jefferson	2016	BRK
## 1472	1766715	6227085.649	-4460370.649	Rondae Hollis-Jefferson	2017	BRK
## 1473	1813203	9645083.842	-7831880.842	Rondae Hollis-Jefferson	2018	BRK
## 1474	2399068	2305518.327	93549.673	Ronnie Brewer	2007	UTA
## 1475	3843565	7213152.906	-3369587.906	Ronnie Brewer	2010	TOT
## 1476	1421996	5965682.642	-4543686.642	Ronnie Brewer	2013	TOT
## 1477	998798	1512979.664	-514181.664	Ronnie Price	2007	SAC
## 1478	1768190	3810405.082	-2042215.082	Ronnie Price	2010	UTA
## 1479	1685681	7383920.674	-5698239.674	Ronnie Price	2015	LAL
## 1480	1128475	4048124.228	-2919649.228	Ronny Turiaf	2008	LAL
## 1481	6274663	4620367.292	1654295.708	Ronny Turiaf	2009	GSW
## 1482	5856245	3578219.251	2278025.749	Ronny Turiaf	2010	GSW
## 1483	2228428	8430218.235	-6201790.235	Roy Hibbert	2010	IND
## 1484	2359067	10897383.582	-8538316.582	Roy Hibbert	2011	IND
## 1485	1485279	3416513.419	-1931234.419	Royal Ivey	2010	PHI
## 1486	1679768	4011524.268	-2331756.268	Royal Ivey	2011	OKC
## 1487	9966161	9374277.751	591883.249	Ruben Patterson	2006	POR

## 1488	10235963	13737237.425	-3501274.425	Ruben Patterson	2007	MIL
## 1489	23374649	19103770.052	4270878.948	Rudy Gay	2014	TOT
## 1490	23374649	13085505.759	10289143.241	Rudy Gay	2014	TOR
## 1491	6614348	14708537.959	-8094189.959	Rudy Gay	2022	UTA
## 1492	2685375	11492465.567	-8807090.567	Rudy Gobert	2017	UTA
## 1493	649453	8637094.467	-7987641.467	Russ Smith	2015	MEM
## 1494	5312548	11782004.273	-6469456.273	Russell Westbrook	2010	OKC
## 1495	20122375	25102493.591	-4980118.591	Russell Westbrook	2015	OKC
## 1496	45867637	24023755.527	21843881.473	Russell Westbrook	2020	HOU
## 1497	48478072	17589090.049	30888981.951	Russell Westbrook	2023	LAC
## 1498	10870187	7452330.807	3417856.193	Ryan Anderson	2015	NOP
## 1499	23717432	12963798.885	10753633.115	Ryan Anderson	2017	HOU
## 1500	24386368	10818786.551	13567581.449	Ryan Anderson	2018	HOU
## 1501	96220	-3276089.781	3372309.781	Ryan Arcidiacono	2018	CHI
## 1502	3550572	1811382.295	1739189.705	Ryan Arcidiacono	2021	CHI
## 1503	1412596	2721895.324	-1309299.324	Ryan Bowen	2006	HOU
## 1504	1128475	8064873.037	-6936398.037	Ryan Gomes	2008	MIN
## 1505	5470780	8031896.890	-2561116.890	Ryan Gomes	2010	MIN
## 1506	3088438	3381296.159	-292858.159	Ryan Hollins	2010	MIN
## 1507	3046940	7251639.637	-4204699.637	Saddiq Bey	2023	TOT
## 1508	1107217	-420746.790	1527963.790	Salah Mejri	2017	DAL
## 1509	2540501	3690939.167	-1150438.167	Salah Mejri	2019	DAL
## 1510	1096227	2011144.286	-914917.286	Salim Stoudamire	2007	ATL
## 1511	9006010	17540394.859	-8534384.859	Sam Cassell	2008	TOT
## 1512	2178087	436924.763	1741162.237	Sam Dekker	2017	HOU
## 1513	1281143	1757134.431	-475991.431	Sam Young	2012	TOT
## 1514	2823545	4199835.454	-1376290.454	Samaki Walker	2004	MIA
## 1515	699903	1537762.086	-837859.086	Samardo Samuels	2011	CLE
## 1516	1149251	3515.745	1145735.255	Sandro Mamukelashvili	2023	MIL
## 1517	92306	4233928.567	-4141622.567	Scott Machado	2019	LAL
## 1518	1143833	4311926.015	-3168093.015	Scott Padgett	2004	HOU
## 1519	2248568	4017847.965	-1769279.965	Scott Padgett	2007	TOT
## 1520	2573402	10178285.972	-7604883.972	Scott Williams	2005	CLE
## 1521	8166690	14676903.656	-6510213.656	Scottie Pippen	2004	CHI
## 1522	1763983	-410682.939	2174665.939	Scotty Hopson	2014	CLE
## 1523	409893	4916488.123	-4506595.123	Sean Kilpatrick	2016	BRK
## 1524	3710455	2462439.889	1248015.111	Sean May	2009	CHA
## 1525	1777172	7373403.335	-5596231.335	Sean Rooks	2004	ORL
## 1526	2696447	2110145.752	586301.248	Sebastian Telfair	2007	BOS
## 1527	2084114	6695126.338	-4611012.338	Sebastian Telfair	2013	TOR
## 1528	1685681	9530158.595	-7844477.595	Sebastian Telfair	2015	OKC
## 1529	3913125	509159.916	3403965.084	Sekou Doumbouya	2020	DET
## 1530	4082448	779747.441	3302700.559	Sekou Doumbouya	2021	DET
## 1531	1584581	-755971.658	2340552.658	Serge Ibaka	2010	OKC
## 1532	9216873	12176433.078	-2959560.078	Seth Curry	2022	TOT
## 1533	2397419	4472577.986	-2075158.986	Shabazz Muhammad	2018	MIN
## 1534	2941241	6045270.792	-3104029.792	Shabazz Napier	2018	POR
## 1535	4708586	11957415.432	-7248829.432	Shai Gilgeous-Alexander	2020	OKC
## 1536	8110125	11664300.852	-3554175.852	Shane Battier	2007	HOU
## 1537	8615896	11867096.276	-3251200.276	Shane Battier	2008	HOU
## 1538	8992150	9987716.815	-995566.815	Shane Battier	2009	HOU
## 1539	10294882	12173814.644	-1878932.644	Shane Battier	2011	TOT
## 1540	10294882	12745731.326	-2450849.326	Shane Battier	2011	HOU
## 1541	4272759	12447549.117	-8174790.117	Shane Battier	2014	MIA

## 1542	1529000	4931204.594	-3402204.594	Shannon Brown	2008	CHI
## 1543	276265	5469021.834	-5192756.834	Shannon Brown	2015	MIA
## 1544	1604956	2372583.631	-767627.631	Shaquille Harrison	2019	CHI
## 1545	22422272	13189600.133	9232671.867	Shareef Abdur-Rahim	2004	TOT
## 1546	4869906	398464.144	4471441.856	Shaun Livingston	2005	LAC
## 1547	5105877	468707.947	4637169.053	Shaun Livingston	2006	LAC
## 1548	419690	4625899.935	-4206209.935	Shaun Livingston	2010	WAS
## 1549	2710272	5683811.462	-2973539.462	Shaun Livingston	2013	TOT
## 1550	10058977	9096805.520	962171.480	Shaun Livingston	2019	GSW
## 1551	1571975	3330933.469	-1758958.469	Shavlik Randolph	2015	PHO
## 1552	22661373	18010733.608	4650639.392	Shawn Marion	2007	PHO
## 1553	24074604	9592053.505	14482550.495	Shawn Marion	2008	MIA
## 1554	10843964	16682763.518	-5838799.518	Shawn Marion	2012	DAL
## 1555	2193287	428878.528	1764408.472	Shawne Williams	2009	DAL
## 1556	4734944	2358123.806	2376820.194	Shelden Williams	2009	TOT
## 1557	3042263	6311685.935	-3269422.935	Shelvin Mack	2019	MEM
## 1558	120035	4643802.244	-4523767.244	Skylar Mays	2023	POR
## 1559	1628979	-2122848.265	3751827.265	Solomon Hill	2014	IND
## 1560	2099710	2390048.735	-290338.735	Solomon Jones	2011	IND
## 1561	1898631	8319682.869	-6421051.869	Spencer Dinwiddie	2018	BRK
## 1562	21689542	11035087.078	10654454.922	Spencer Dinwiddie	2022	WAS
## 1563	3299867	7377295.327	-4077428.327	Spencer Hawes	2010	SAC
## 1564	8642259	8802866.072	-160607.072	Spencer Hawes	2013	PHI
## 1565	8493252	14148252.166	-5655000.166	Spencer Hawes	2014	TOT
## 1566	8493252	9819075.636	-1325823.636	Spencer Hawes	2014	CLE
## 1567	7087892	7378456.950	-290564.950	Spencer Hawes	2016	CHO
## 1568	7320106	9549224.214	-2229118.214	Spencer Hawes	2017	CHO
## 1569	4771048	3864949.198	906098.802	Stanley Johnson	2019	NOP
## 1570	4315596	5598555.463	-1282959.463	Stanley Johnson	2020	TOR
## 1571	4141588	6648041.795	-2506453.795	Stanley Johnson	2023	SAS
## 1572	4078814	11463640.421	-7384826.421	Stephen Curry	2011	GSW
## 1573	47922728	17311612.108	30611115.892	Stephen Curry	2020	GSW
## 1574	1251710	4582350.487	-3330640.487	Stephen Graham	2010	CHA
## 1575	9708918	14988193.231	-5279275.231	Stephen Jackson	2008	GSW
## 1576	9955799	15971519.720	-6015720.720	Stephen Jackson	2009	GSW
## 1577	10821324	11896567.694	-1075243.694	Stephen Jackson	2010	GSW
## 1578	11832921	19372160.622	-7539239.622	Stephen Jackson	2011	CHA
## 1579	13375559	10823363.962	2552195.038	Stephen Jackson	2013	SAS
## 1580	27841752	12270911.396	15570840.604	Stephon Marbury	2008	NYK
## 1581	1015906	-1018844.583	2034750.583	Sterling Brown	2018	MIL
## 1582	997267	-269040.237	1266307.237	Steve Blake	2005	WAS
## 1583	6973742	6598031.873	375710.127	Steve Blake	2010	TOT
## 1584	6973742	6470192.475	503549.525	Steve Blake	2010	POR
## 1585	5599229	2883180.130	2716048.870	Steve Blake	2011	LAL
## 1586	5318313	7531253.119	-2212940.119	Steve Blake	2013	LAL
## 1587	5226617	9439565.262	-4212948.262	Steve Blake	2014	TOT
## 1588	2688263	6837109.129	-4148846.129	Steve Blake	2015	POR
## 1589	18203563	14136130.714	4067432.286	Steve Francis	2004	HOU
## 1590	21490968	11342476.544	10148491.456	Steve Francis	2006	ORL
## 1591	21490968	7592432.103	13898535.897	Steve Francis	2006	NYK
## 1592	9550227	12031964.260	-2481737.260	Steve Nash	2004	DAL
## 1593	17081028	18055301.584	-974273.584	Steve Nash	2009	PHO
## 1594	12152538	15218397.041	-3065859.041	Steve Nash	2014	LAL
## 1595	1209709	1631141.115	-421432.115	Steve Novak	2010	LAC

## 1596	1028781	5879202.262	-4850421.262	Steve Novak	2011	TOT
## 1597	4411245	6158738.035	-1747493.035	Steve Novak	2015	TOT
## 1598	1769214	12417657.923	-10648443.923	Steve Smith	2005	TOT
## 1599	3975636	8464435.843	-4488799.843	Steven Adams	2017	OKC
## 1600	19172818	11720852.926	7451965.074	Steven Adams	2022	MEM
## 1601	458150	1986277.138	-1528127.138	Sundiata Gaines	2011	TOR
## 1602	17438002	10643108.858	6794893.142	Taj Gibson	2018	MIN
## 1603	2992130	11556587.386	-8564457.386	Taj Gibson	2023	WAS
## 1604	620620	1531256.094	-910636.094	Tarence Kinsey	2007	MEM
## 1605	1112122	3187017.856	-2074895.856	Tarence Kinsey	2009	CLE
## 1606	649453	-1178918.178	1828371.178	Tarik Black	2015	HOU
## 1607	2934752	1659074.069	1275677.931	Taurean Prince	2017	ATL
## 1608	4147624	9584239.381	-5436615.381	Taurean Prince	2020	BRK
## 1609	14498172	6096324.669	8401847.331	Taurean Prince	2021	TOT
## 1610	14498172	6548248.334	7949923.666	Taurean Prince	2021	BRK
## 1611	647282	70992.443	576289.557	Taylor Griffin	2010	PHO
## 1612	1613008	8546499.162	-6933491.162	Tayshaun Prince	2004	DET
## 1613	12704508	12606723.860	97784.140	Tayshaun Prince	2008	DET
## 1614	9454891	12974622.208	-3519731.208	Tayshaun Prince	2014	MEM
## 1615	9867036	10795199.978	-928163.978	Tayshaun Prince	2015	BOS
## 1616	1070036	2811622.890	-1741586.890	Terence Davis	2020	TOR
## 1617	2949138	428341.721	2520796.279	Terrance Ferguson	2020	OKC
## 1618	405359	-3302094.295	3707453.295	Terrel Harris	2013	NOH
## 1619	1528208	7303515.086	-5775307.086	Terrence Jones	2017	NOP
## 1620	3576620	6587535.936	-3010915.936	Terrence Ross	2015	TOR
## 1621	14889583	10582147.910	4307435.090	Terrence Ross	2020	ORL
## 1622	14037241	8994235.752	5043005.248	Terrence Ross	2022	ORL
## 1623	2914034	1861608.105	1052425.895	Terrence Williams	2010	NJN
## 1624	2476844	6843361.361	-4366517.361	Terry Rozier	2018	BOS
## 1625	23697947	11960370.021	11737576.979	Terry Rozier	2020	CHO
## 1626	20107240	16088987.115	4018252.885	Terry Rozier	2022	CHO
## 1627	1005206	773434.192	231771.808	Terry Taylor	2022	IND
## 1628	2692750	3473432.879	-780682.879	Thabo Sefolosha	2009	OKC
## 1629	4549373	7938309.322	-3388936.322	Thabo Sefolosha	2011	OKC
## 1630	5063671	12255530.427	-7191859.427	Thabo Sefolosha	2017	ATL
## 1631	15290581	14715568.247	575012.753	Thaddeus Young	2017	IND
## 1632	1722066	3387219.478	-1665153.478	Thanasis Antetokounmpo	2020	MIL
## 1633	93534	1621910.988	-1528376.988	Theo Pinson	2019	BRK
## 1634	17084572	10505041.439	6579530.561	Theo Ratliff	2008	MIN
## 1635	997267	-1667591.945	2664858.945	Theron Smith	2005	CHA
## 1636	2026613	5943876.641	-3917263.641	Thomas Bryant	2023	DEN
## 1637	4708762	3132518.670	1576243.330	Thomas Robinson	2015	TOT
## 1638	4708762	4368703.293	340058.707	Thomas Robinson	2015	PHI
## 1639	1330430	5069754.894	-3739324.894	Thomas Robinson	2017	LAL
## 1640	93534	2662227.100	-2568693.100	Thomas Welsh	2019	DEN
## 1641	3844810	-233372.944	4078182.944	Thon Maker	2018	MIL
## 1642	3389908	2256581.676	1133326.324	Thon Maker	2019	TOT
## 1643	4252039	4303320.054	-51281.054	Thon Maker	2020	DET
## 1644	2055953	5294979.558	-3239026.558	Thon Maker	2021	CLE
## 1645	13066542	6921228.381	6145313.619	Tiago Splitter	2014	SAS
## 1646	1158104	1307595.880	-149491.880	Tierre Brown	2005	LAL
## 1647	13263953	26886382.291	-13622429.291	Tim Duncan	2015	SAS
## 1648	2645768	2614574.235	31193.765	Tim Frazier	2017	NOP
## 1649	2218319	2912844.078	-694525.078	Tim Frazier	2019	TOT

## 1650	2218319	2799738.027	-581419.027	Tim Frazier	2019	NOP
## 1651	2218319	3954549.111	-1736230.111	Tim Frazier	2019	MIL
## 1652	707111	2436329.366	-1729218.366	Tim Frazier	2021	MEM
## 1653	21922356	9352419.817	12569936.183	Tim Thomas	2006	TOT
## 1654	8247748	14173103.565	-5925355.565	Tim Thomas	2008	LAC
## 1655	8435099	10914625.824	-2479526.824	Tim Thomas	2009	CHI
## 1656	20254686	7889017.597	12365668.403	Timofey Mozgov	2017	LAL
## 1657	19032334	7561337.022	11470996.978	Timofey Mozgov	2018	BRK
## 1658	2130891	6336636.605	-4205745.605	Tobias Harris	2014	ORL
## 1659	38750442	17565542.870	21184899.130	Tobias Harris	2023	PHI
## 1660	4342616	9147461.740	-4804845.740	Tom Gugliotta	2005	TOT
## 1661	1499193	3022482.790	-1523289.790	Toney Douglas	2011	NYK
## 1662	2749408	3976644.937	-1227236.937	Toney Douglas	2013	TOT
## 1663	2749408	3615748.929	-866340.929	Toney Douglas	2013	SAC
## 1664	2090646	4113855.379	-2023209.379	Toney Douglas	2014	TOT
## 1665	2090646	3576605.189	-1485959.189	Toney Douglas	2014	GSW
## 1666	3799277	8215907.822	-4416630.822	Toney Douglas	2016	NOP
## 1667	8640494	10567044.726	-1926550.726	Tony Battie	2007	ORL
## 1668	4192113	5043730.988	-851617.988	Tony Bradley	2021	OKC
## 1669	5294307	10343744.613	-5049437.613	Tony Delk	2006	TOT
## 1670	13176943	15001864.399	-1824921.399	Tony Parker	2006	SAS
## 1671	16104969	19094897.087	-2989928.087	Tony Parker	2009	SAS
## 1672	16619730	19543142.268	-2923412.268	Tony Parker	2013	SAS
## 1673	18286580	17199771.181	1086808.819	Tony Parker	2017	SAS
## 1674	1841128	-532740.367	2373868.367	Tony Snell	2014	CHI
## 1675	1963688	2151217.217	-187529.217	Tony Snell	2016	CHI
## 1676	2998107	6321560.587	-3323453.587	Tony Snell	2017	MIL
## 1677	2683517	4159298.979	-1475781.979	Tony Snell	2022	POR
## 1678	1475991	400569.470	1075421.530	Tony Wroten	2013	MEM
## 1679	1549054	8497120.227	-6948066.227	Tony Wroten	2015	PHI
## 1680	1030782	-1772283.302	2803065.302	Tornike Shengelia	2014	BRK
## 1681	5274030	8178571.345	-2904541.345	Torrey Craig	2023	PHO
## 1682	32873572	12823004.885	20050567.115	Tracy McGrady	2010	TOT
## 1683	32873572	11854675.177	21018896.823	Tracy McGrady	2010	HOU
## 1684	32873572	12684682.916	20188889.084	Tracy McGrady	2010	NYK
## 1685	9350455	19637667.052	-10287212.052	Trae Young	2022	ATL
## 1686	2196587	2150906.957	45680.043	Travis Diener	2008	IND
## 1687	2258878	1385377.494	873500.506	Travis Diener	2009	IND
## 1688	2461320	2317.055	2459002.945	Travis Diener	2010	TOT
## 1689	5577478	6495275.508	-917797.508	Travis Outlaw	2009	POR
## 1690	1835550	7584242.585	-5748692.585	Tre Jones	2023	SAS
## 1691	3258032	3853001.189	-594969.189	Tre Mann	2022	OKC
## 1692	127108	3002481.115	-2875373.115	Tremaine Fowlkes	2005	IND
## 1693	524000	-650860.289	1174860.289	Trent Forrest	2023	ATL
## 1694	6823774	5343059.499	1480714.501	Trenton Hassell	2006	MIN
## 1695	6153301	5705231.269	448069.731	Trenton Hassell	2010	NJN
## 1696	687989	-203232.397	891221.397	Treveon Graham	2017	CHO
## 1697	1634951	-1642764.689	3277715.689	Treveon Graham	2018	CHO
## 1698	1959894	1288495.906	671398.094	Treveon Graham	2020	ATL
## 1699	619670	1397277.251	-777607.251	Trevor Ariza	2005	NYK
## 1700	4539615	2687336.909	1852278.091	Trevor Ariza	2008	ORL
## 1701	8280788	14518976.181	-6238188.181	Trevor Ariza	2010	HOU
## 1702	8850029	12805210.284	-3955181.284	Trevor Ariza	2011	NOH
## 1703	10096883	17097346.566	-7000463.566	Trevor Ariza	2014	WAS

## 1704	10484054	16825515.192	-6341461.192	Trevor Ariza	2016	HOU
## 1705	9874159	18224235.303	-8350076.303	Trevor Ariza	2017	HOU
## 1706	18162042	17800046.967	361995.033	Trevor Ariza	2019	TOT
## 1707	18162042	13688532.911	4473509.089	Trevor Ariza	2019	PHO
## 1708	18162042	16485675.646	1676366.354	Trevor Ariza	2019	WAS
## 1709	15149110	15967145.474	-818035.474	Trevor Ariza	2021	MIA
## 1710	1686151	-133013.483	1819164.483	Trevor Booker	2011	WAS
## 1711	11709740	9918068.998	1791671.002	Trevor Booker	2017	BRK
## 1712	2173409	9041932.483	-6868523.483	Trey Burke	2019	TOT
## 1713	273039	7093643.645	-6820604.645	Trey Burke	2020	TOT
## 1714	3550572	7762518.541	-4211946.541	Trey Burke	2021	DAL
## 1715	2963007	2601756.856	361250.144	Trey Lyles	2017	UTA
## 1716	3040938	4916878.727	-1875940.727	Trey Lyles	2018	DEN
## 1717	2807448	9816303.086	-7008855.086	Trey Lyles	2022	TOT
## 1718	2807448	9370543.925	-6563095.925	Trey Lyles	2022	DET
## 1719	2807448	8570990.071	-5763542.071	Trey Lyles	2022	SAC
## 1720	2134998	1121433.383	1013564.617	Troy Bell	2004	MEM
## 1721	1211133	4781004.680	-3569871.680	Troy Daniels	2016	CHO
## 1722	3945448	5316839.731	-1371391.731	Troy Daniels	2019	PHO
## 1723	546077	5766530.937	-5220453.937	Troy Daniels	2020	LAL
## 1724	8240296	8225599.103	14696.897	Troy Hudson	2006	MIN
## 1725	825586	1622794.483	-797208.483	Troy Williams	2017	HOU
## 1726	2612800	30361.928	2582438.072	Ty Jerome	2020	PHO
## 1727	2164885	5008639.850	-2843754.850	Ty Lawson	2011	DEN
## 1728	531538	-2374902.923	2906440.923	Ty-Shon Alexander	2021	PHO
## 1729	1015906	1597842.554	-581936.554	Tyler Dorsey	2018	ATL
## 1730	1668779	2727437.302	-1058658.302	Tyler Dorsey	2019	TOT
## 1731	2194949	3620525.138	-1425576.138	Tyler Ennis	2017	LAL
## 1732	1898631	3379348.623	-1480717.623	Tyler Ennis	2018	LAL
## 1733	2629878	3043729.573	-413851.573	Tyler Hansbrough	2010	IND
## 1734	4336084	3434669.528	901414.472	Tyler Herro	2020	MIA
## 1735	4523713	5374177.105	-850464.105	Tyler Herro	2021	MIA
## 1736	1130141	180569.760	949571.240	Tyler Honeycutt	2013	SAC
## 1737	23302348	6421158.563	16881189.437	Tyler Johnson	2019	MIA
## 1738	10127343	3525230.955	6602112.045	Tyler Zeller	2017	BOS
## 1739	2129352	6573797.778	-4444445.778	Tyler Zeller	2018	TOT
## 1740	6982711	11034022.391	-4051311.391	Tyreke Evans	2013	SAC
## 1741	1048000	-238088.953	1286088.953	Tyrese Martin	2023	ATL
## 1742	2933767	3518811.955	-585044.955	Tyrese Maxey	2021	PHI
## 1743	5125371	8222069.531	-3096698.531	Tyronn Lue	2008	TOT
## 1744	5133162	4750247.509	382914.491	Tyrus Thomas	2008	CHI
## 1745	6710066	5585187.381	1124878.619	Tyrus Thomas	2010	CHI
## 1746	13759227	7841679.375	5917547.625	Tyson Chandler	2007	NOK
## 1747	1639194	-1158276.069	2797470.069	Tyus Jones	2016	MIN
## 1748	8308167	6054671.573	2253495.427	Udonis Haslem	2007	MIA
## 1749	3650164	8569073.617	-4918909.617	Udonis Haslem	2016	MIA
## 1750	2898525	13641060.271	-10742535.271	Udonis Haslem	2019	MIA
## 1751	94778	-1143649.021	1238427.021	Vic Law	2020	ORL
## 1752	1668248	-653519.374	2321767.374	Victor Claver	2013	POR
## 1753	8295509	10371803.806	-2076294.806	Victor Oladipo	2017	OKC
## 1754	26157004	22191061.837	3965942.163	Victor Oladipo	2018	IND
## 1755	1719214	2423615.079	-704401.079	Viktor Khryapa	2006	POR
## 1756	14207323	6678927.538	7528395.462	Vin Baker	2005	NYK
## 1757	18811820	20292276.484	-1480456.484	Vince Carter	2004	TOR

## 1758	9964573	16449365.375	-6484792.375	Vince Carter	2018	SAC
## 1759	20016462	20275249.381	-258787.381	Vlade Divac	2004	SAC
## 1760	1128475	1957777.701	-829302.701	Von Wafer	2008	DEN
## 1761	1282016	3766700.638	-2484684.638	Von Wafer	2011	BOS
## 1762	5521766	10824218.367	-5302452.367	Voshon Lenard	2006	POR
## 1763	505927	-1498308.229	2004235.229	Walker Russell	2012	DET
## 1764	18707607	9604150.859	9103456.141	Wally Szczerbiak	2008	TOT
## 1765	2846778	2267143.027	579634.973	Walter Herrmann	2008	TOT
## 1766	2151203	5446876.071	-3295673.071	Walter McCarty	2005	TOT
## 1767	2151203	5633843.412	-3482640.412	Walter McCarty	2005	BOS
## 1768	1623587	6627114.371	-5003527.371	Walter McCarty	2006	LAC
## 1769	616470	2099340.014	-1482870.014	Walter Sharpe	2009	DET
## 1770	4353148	4385245.818	-32097.818	Wang Zhizhi	2004	MIA
## 1771	1419587	-726030.013	2145617.013	Wayne Ellington	2010	MIN
## 1772	2769567	2398464.554	371102.446	Wayne Ellington	2013	MEM
## 1773	1361265	6805685.523	-5444420.523	Wayne Ellington	2015	LAL
## 1774	1917814	7879903.852	-5962089.852	Wayne Ellington	2016	BRK
## 1775	10477168	11841073.626	-1363905.626	Wayne Ellington	2019	DET
## 1776	1870631	2389970.531	-519339.531	Wayne Selden	2019	MEM
## 1777	1870631	1862232.221	8398.779	Wayne Selden	2019	CHI
## 1778	912266	2159605.603	-1247339.603	Wayne Selden	2022	NYK
## 1779	586210	3049183.865	-2462973.865	Wenyen Gabriel	2022	LAL
## 1780	7427064	5892684.051	1534379.949	Wesley Johnson	2019	TOT
## 1781	7427064	6418705.826	1008358.174	Wesley Johnson	2019	NOP
## 1782	23441418	13621056.174	9820361.826	Wesley Matthews	2019	TOT
## 1783	12789000	7347782.170	5441217.830	Wesley Person	2004	POR
## 1784	4401019	10175493.739	-5774474.739	Will Barton	2018	DEN
## 1785	15219281	13526760.740	1692520.260	Will Barton	2020	DEN
## 1786	15506861	9199664.410	6307196.590	Will Barton	2023	TOR
## 1787	1135977	-1965560.204	3101537.204	Will Conroy	2013	MIN
## 1788	4495477	3584033.763	911443.237	Willie Cauley-Stein	2017	SAC
## 1789	2593745	7001300.908	-4407555.908	Willie Cauley-Stein	2020	TOT
## 1790	4739065	2797113.589	1941951.411	Willie Cauley-Stein	2022	TOT
## 1791	4210474	6590030.213	-2379556.213	Willie Green	2007	PHI
## 1792	1832711	4195887.137	-2363176.137	Willie Reed	2018	LAC
## 1793	1775885	6706509.357	-4930624.357	Wilson Chandler	2010	NYK
## 1794	2982264	8884025.885	-5901761.885	Wilson Chandler	2011	TOT
## 1795	2982264	6137554.790	-3155290.790	Wilson Chandler	2011	DEN
## 1796	7884951	8111321.290	-226370.290	Wilson Chandler	2013	DEN
## 1797	15498956	8781589.048	6717366.952	Wilson Chandler	2019	TOT
## 1798	15498956	7827670.402	7671285.598	Wilson Chandler	2019	LAC
## 1799	3088876	980860.968	2108015.032	Xavier Henry	2013	NOH
## 1800	1197024	5943376.715	-4746352.715	Xavier Henry	2014	LAL
## 1801	18729091	17198948.917	1530142.083	Yao Ming	2007	HOU
## 1802	2673790	-1917436.285	4591226.285	Yaroslav Korolev	2006	LAC
## 1803	2755274	699791.103	2055482.897	Yaroslav Korolev	2007	LAC
## 1804	1118124	5150829.765	-4032705.765	Yi Jianlian	2012	DAL
## 1805	519522	-2577760.051	3097282.051	Yves Pons	2022	MEM
## 1806	2836770	8078891.612	-5242121.612	Zach LaVine	2017	MIN
## 1807	23078722	20783962.069	2294759.931	Zach LaVine	2021	CHI
## 1808	16732627	12084757.650	4647869.350	Zach Randolph	2006	POR
## 1809	22632834	15675307.584	6957526.416	Zach Randolph	2010	MEM
## 1810	20545878	10866852.094	9679025.906	Zach Randolph	2012	MEM
## 1811	23258446	19221313.476	4037132.524	Zach Randolph	2014	MEM

## 1812	12785432	18530789.190	-5745357.190	Zach Randolph	2016	MEM
## 1813	6719122	3595402.895	3123719.105	Zaza Pachulia	2010	ATL
## 1814	3668630	16270533.175	-12601903.175	Zaza Pachulia	2017	GSW
## 1815	2695527	1733700.320	961826.680	Zeke Nnaji	2023	DEN
## 1816	3643540	539054.548	3104485.452	Zhaire Smith	2020	PHI
## 1817	1015906	-1477217.687	2493123.687	Zhou Qi	2018	HOU
## 1818	12125773	16321419.773	-4195646.773	Zion Williamson	2021	NOP
## 1819	22422272	12779882.028	9642389.972	Zydrunas Ilgauskas	2004	CLE
## 1820	15117219	15650492.941	-533273.941	Zydrunas Ilgauskas	2009	CLE

Next, I created a random forest model. The code to produce the model as well as the code to calculate RMSE for it is below.

```
rfm <- randomForest(salary ~ ., data = as.data.frame(train))
print (rfm)

##
## Call:
## randomForest(formula = salary ~ ., data = as.data.frame(train))
##           Type of random forest: regression
##           Number of trees: 500
## No. of variables tried at each split: 17
##
##           Mean of squared residuals: 1.867127e+13
##           % Var explained: 72.76

rf_sal_pred <- predict(rfm, newdata = test)
rf_rmse <- sqrt(mean((test$salary - rf_sal_pred)^2))
print(rf_rmse)
```

```
## [1] 4343796
```

The random forest model using all of the available data had a RMSE of \$4,343,795, which is also less than the standard deviation of the salaries in the data set. This is also an improvement over the more simple linear model.

Similar to the linear model, I created a table that contained the actual salary, the predicted salary, the difference between them, as well as the player's name, the season, and the team the player was on. The table can be seen below.

```
rf_results <- data.frame(
  true_sal = test$salary,
  modeled_sal = rf_sal_pred,
  sal_diff = test$salary - rf_sal_pred,
  player = test$player,
  season = test$season,
  team = test$tm
)

print(rf_results)
```

##	true_sal	modeled_sal	sal_diff	player	season	team
----	----------	-------------	----------	--------	--------	------

## 1	3641154	3770934.5	-1.297805e+05	AJ Griffin	2023	ATL
## 2	1582204	5862178.0	-4.279974e+06	Aaron Brooks	2010	HOU
## 3	7645075	6540266.6	1.104808e+06	Aaron Brooks	2013	SAC
## 4	6856148	6495875.2	3.602728e+05	Aaron Gordon	2018	ORL
## 5	8304545	9179190.7	-8.746457e+05	Aaron McKie	2004	PHI
## 6	3917318	3886514.8	3.080315e+04	Aaron Nesmith	2023	IND
## 7	2822000	1970736.3	8.512637e+05	Acie Law	2008	ATL
## 8	531538	1390708.4	-8.591704e+05	Adam Mokoka	2021	CHI
## 9	5799462	1062327.7	4.737134e+06	Adam Morrison	2009	LAL
## 10	812745	2273019.0	-1.460274e+06	Admiral Schofield	2022	ORL
## 11	2375042	2142113.8	2.329282e+05	Adreian Payne	2015	MIN
## 12	1205875	8483568.6	-7.277694e+06	Adrian Griffin	2006	DAL
## 13	9454725	10489529.9	-1.034805e+06	Al Harrington	2004	IND
## 14	10172980	12105839.7	-1.932860e+06	Al Harrington	2005	ATL
## 15	11466023	12885032.4	-1.419009e+06	Al Harrington	2007	TOT
## 16	8069889	9256112.5	-1.186224e+06	Al Harrington	2011	DEN
## 17	5485319	4359745.1	1.125574e+06	Al Horford	2008	ATL
## 18	5614736	4178491.3	1.436245e+06	Al Horford	2009	ATL
## 19	15679851	16409562.3	-7.297113e+05	Al Horford	2014	ATL
## 20	15342518	18651017.1	-3.308499e+06	Al Horford	2016	ATL
## 21	33597587	20163074.6	1.343451e+07	Al Horford	2017	BOS
## 22	33352666	19761350.7	1.359132e+07	Al Horford	2020	PHI
## 23	17639832	21789524.3	-4.149692e+06	Al Jefferson	2014	CHA
## 24	2687932	2646902.5	4.102949e+04	Al Thornton	2010	WAS
## 25	10283188	10105279.2	1.779088e+05	Al-Farouq Aminu	2016	POR
## 26	9723471	11659438.9	-1.935968e+06	Al-Farouq Aminu	2017	POR
## 27	9116382	13314084.5	-4.197703e+06	Al-Farouq Aminu	2018	POR
## 28	11504920	12316748.2	-8.118282e+05	Al-Farouq Aminu	2021	TOT
## 29	1364696	1091647.1	2.730489e+05	Alando Tucker	2008	PHO
## 30	4098154	4429238.0	-3.310840e+05	Alec Burks	2015	UTA
## 31	12538277	6927181.0	5.611096e+06	Alec Burks	2017	UTA
## 32	13968445	15567478.7	-1.599034e+06	Alec Burks	2019	TOT
## 33	13968445	16785679.2	-2.817234e+06	Alec Burks	2019	CLE
## 34	13968445	9879698.5	4.088746e+06	Alec Burks	2019	SAC
## 35	7101145	10691919.3	-3.590774e+06	Alec Burks	2021	NYK
## 36	992117	1904872.8	-9.127558e+05	Alex Acker	2009	DET
## 37	992117	1600275.1	-6.081581e+05	Alex Acker	2009	LAC
## 38	96220	1405648.9	-1.309429e+06	Alex Caruso	2018	LAL
## 39	9298116	12659743.4	-3.361627e+06	Alex Caruso	2023	CHI
## 40	4672356	3173364.7	1.498991e+06	Alex Len	2015	PHO
## 41	4867567	4226687.3	6.408797e+05	Alex Len	2016	PHO
## 42	4955253	7940602.6	-2.985350e+06	Alex Len	2020	TOT
## 43	4699357	13618236.6	-8.918880e+06	Alex Len	2021	TOT
## 44	4699357	8365841.0	-3.666484e+06	Alex Len	2021	TOR
## 45	4699357	14129518.5	-9.430162e+06	Alex Len	2021	WAS
## 46	4094767	1479394.8	2.615372e+06	Alexey Shved	2015	HOU
## 47	735663	3402311.2	-2.666648e+06	Alize Johnson	2021	BRK
## 48	28196848	11164378.8	1.703247e+07	Allan Houston	2005	NYK
## 49	1103468	2030544.1	-9.270761e+05	Allen Crabbe	2015	POR
## 50	23419481	3654361.6	1.976512e+07	Allen Crabbe	2017	POR
## 51	25809750	24396490.7	1.413259e+06	Allen Iverson	2006	PHI
## 52	29059535	11810061.0	1.724947e+07	Allen Iverson	2009	DEN
## 53	1684985	9443121.3	-7.758136e+06	Allen Iverson	2010	TOT
## 54	9135000	7585420.1	1.549580e+06	Alvin Williams	2004	TOR

## 55	625531	1398516.4	-7.729854e+05	Amir Johnson	2006	DET
## 56	8960879	9803279.3	-8.424003e+05	Amir Johnson	2015	TOR
## 57	15191014	12487335.3	2.703679e+06	Amir Johnson	2017	BOS
## 58	2898525	9225386.8	-6.326862e+06	Amir Johnson	2019	PHI
## 59	625531	1603778.3	-9.782473e+05	Andray Blatche	2006	WAS
## 60	998798	2486939.4	-1.488141e+06	Andray Blatche	2007	WAS
## 61	4243656	14284903.7	-1.004125e+07	Andray Blatche	2010	WAS
## 62	8707779	9502906.7	-7.951277e+05	Andray Blatche	2012	WAS
## 63	3217505	5449237.9	-2.231733e+06	Andre Drummond	2014	DET
## 64	32272299	29120268.1	3.152031e+06	Andre Drummond	2020	TOT
## 65	2696876	17350233.9	-1.465336e+07	Andre Drummond	2022	TOT
## 66	4107456	5728355.3	-1.620899e+06	Andre Iguodala	2008	PHI
## 67	15756377	15105344.1	6.510329e+05	Andre Iguodala	2009	PHI
## 68	19569067	13293203.2	6.275864e+06	Andre Iguodala	2013	DEN
## 69	16814853	9712736.0	7.102117e+06	Andre Iguodala	2014	GSW
## 70	12706338	12630124.5	7.621349e+04	Andre Miller	2006	DEN
## 71	13132668	12034886.6	1.097781e+06	Andre Miller	2007	DEN
## 72	5920581	6180940.9	-2.603599e+05	Andre Miller	2015	SAC
## 73	1486072	2765724.6	-1.279653e+06	Andre Roberson	2015	OKC
## 74	1548060	2989685.9	-1.441626e+06	Andre Roberson	2016	OKC
## 75	7086017	4012784.4	3.073233e+06	Andrea Bargnani	2008	TOR
## 76	15361508	13583989.9	1.777518e+06	Andrea Bargnani	2015	NYK
## 77	2688713	6475573.2	-3.786860e+06	Andrei Kirilenko	2005	UTA
## 78	6808903	3797385.6	3.011517e+06	Andrew Bogut	2006	MIL
## 79	16220430	10966576.1	5.253854e+06	Andrew Bogut	2012	MIL
## 80	3053014	3757662.2	-7.046482e+05	Andrew Bynum	2007	LAL
## 81	429228	1335020.0	-9.057920e+05	Andrew Harrison	2019	CLE
## 82	2310742	3851458.6	-1.540717e+06	Andrew Nembhard	2023	IND
## 83	30835818	17064469.0	1.377135e+07	Andrew Wiggins	2019	MIN
## 84	32762598	25984129.3	6.778469e+06	Andrew Wiggins	2020	TOT
## 85	32762598	15523404.0	1.723919e+07	Andrew Wiggins	2020	GSW
## 86	22422272	8553363.8	1.386891e+07	Anfernee Hardaway	2004	PHO
## 87	4423211	6305659.5	-1.882448e+06	Anfernee Simons	2022	POR
## 88	1143833	2452905.9	-1.309073e+06	Ansu Sesay	2004	SEA
## 89	21715534	17136546.8	4.578987e+06	Antawn Jamison	2006	WAS
## 90	1797830	8142782.7	-6.344953e+06	Antawn Jamison	2013	LAL
## 91	7024259	6904488.6	1.197704e+05	Anthony Davis	2014	NOP
## 92	7177972	9258599.5	-2.080628e+06	Anthony Davis	2015	NOP
## 93	11505462	6592316.9	4.913145e+06	Anthony Edwards	2022	MIN
## 94	1890606	2667041.3	-7.764353e+05	Anthony Gill	2023	WAS
## 95	3796214	9061696.3	-5.265482e+06	Anthony Johnson	2006	IND
## 96	3969875	4852831.2	-8.829562e+05	Anthony Johnson	2007	DAL
## 97	616470	2282108.6	-1.665639e+06	Anthony Morrow	2009	GSW
## 98	5318313	5386235.0	-6.792200e+04	Anthony Morrow	2013	DAL
## 99	4415521	6428392.6	-2.012872e+06	Anthony Morrow	2017	OKC
## 100	2286644	5014306.3	-2.727662e+06	Anthony Randolph	2014	DEN
## 101	401665	1443936.7	-1.042272e+06	Anthony Roberson	2007	GSW
## 102	3840377	5149963.7	-1.309587e+06	Anthony Tolliver	2015	DET
## 103	6589073	9762712.1	-3.173639e+06	Anthony Tolliver	2018	DET
## 104	517804	6317032.0	-5.799228e+06	Anthony Tolliver	2020	POR
## 105	517804	9132343.6	-8.614540e+06	Anthony Tolliver	2020	SAC
## 106	727675	7647105.1	-6.919430e+06	Anthony Tolliver	2021	PHI
## 107	2362256	1768752.3	5.935037e+05	Antoine Wright	2007	NJN
## 108	2509865	3558215.4	-1.048350e+06	Antoine Wright	2009	DAL

## 109	2976170	2687922.4	2.882476e+05	Archie Goodwin	2017	NOP
## 110	1030260	1133419.2	-1.031592e+05	Armon Johnson	2012	NJN
## 111	318551	1000031.2	-6.814802e+05	Aron Baynes	2013	SAS
## 112	1415898	1763133.8	-3.472358e+05	Arron Afflalo	2009	DET
## 113	1536543	2662908.2	-1.126365e+06	Arron Afflalo	2010	DEN
## 114	2608245	2536716.7	7.152829e+04	Austin Daye	2012	DET
## 115	3933483	2880817.1	1.052666e+06	Austin Daye	2013	DET
## 116	3933483	3176383.4	7.570996e+05	Austin Daye	2013	MEM
## 117	1617502	4139348.7	-2.521847e+06	Austin Daye	2015	SAS
## 118	3123301	1798408.9	1.324892e+06	Austin Rivers	2015	NOP
## 119	14728884	14395626.8	3.332572e+05	Austin Rivers	2018	LAC
## 120	15928503	10821499.4	5.107004e+06	Austin Rivers	2019	TOT
## 121	2060643	2944516.1	-8.838731e+05	Avery Bradley	2012	BOS
## 122	10468714	13778643.2	-3.309929e+06	Avery Bradley	2017	BOS
## 123	136025	1375280.7	-1.239256e+06	Awvee Storey	2005	NJN
## 124	1041939	2356499.3	-1.314560e+06	Awvee Storey	2008	MIL
## 125	1039045	3048994.5	-2.009949e+06	Ayo Dosunmu	2022	CHI
## 126	6054308	10313419.8	-4.259112e+06	Bam Adebayo	2021	MIA
## 127	31559650	25613994.0	5.945656e+06	Bam Adebayo	2022	MIA
## 128	18203563	18209042.2	-5.479194e+03	Baron Davis	2004	NOH
## 129	20616411	9937914.8	1.067850e+07	Baron Davis	2012	NYK
## 130	5807567	6279126.6	-4.715596e+05	Ben Gordon	2007	CHI
## 131	17247836	7912076.1	9.335760e+06	Ben Gordon	2014	CHA
## 132	5760565	5775880.6	-1.531555e+04	Ben Gordon	2015	ORL
## 133	629693	1054908.2	-4.252152e+05	Ben Hansbrough	2013	IND
## 134	2416393	10027208.2	-7.610815e+06	Ben McLemore	2020	HOU
## 135	7790935	7034897.7	7.560373e+05	Ben Simmons	2019	PHI
## 136	83039	1117688.8	-1.034650e+06	Ben Uzoh	2012	TOT
## 137	9135000	14330650.5	-5.195651e+06	Ben Wallace	2004	DET
## 138	11258634	14561664.7	-3.303031e+06	Ben Wallace	2005	DET
## 139	3036464	8439255.6	-5.402792e+06	Ben Wallace	2012	DET
## 140	1353738	2617045.3	-1.263307e+06	Beno Udrih	2005	SAS
## 141	1662428	7690528.0	-6.028100e+06	Beno Udrih	2014	MEM
## 142	2659964	5356971.3	-2.697007e+06	Beno Udrih	2016	TOT
## 143	2659964	5448264.5	-2.788300e+06	Beno Udrih	2016	MIA
## 144	619670	893220.6	-2.735506e+05	Bernard Robinson	2005	CHA
## 145	1503740	1589830.1	-8.609008e+04	Bernard Robinson	2007	CHA
## 146	1135527	2091336.7	-9.558097e+05	Billy Thomas	2008	TOT
## 147	4142334	12764640.0	-8.622306e+06	Bismack Biyombo	2021	CHO
## 148	40121756	18702174.7	2.141958e+07	Blake Griffin	2021	DET
## 149	40121756	14720251.0	2.540151e+07	Blake Griffin	2021	BRK
## 150	616470	1794064.2	-1.177594e+06	Bobby Brown	2009	TOT
## 151	616470	985856.0	-3.693860e+05	Bobby Brown	2009	MIN
## 152	1041704	1895751.2	-8.540472e+05	Bobby Brown	2010	TOT
## 153	14937670	5322953.9	9.614716e+06	Bobby Simmons	2010	NJN
## 154	804041	4423120.9	-3.619080e+06	Bobby Simmons	2012	LAC
## 155	2426929	2258159.7	1.687693e+05	Bol Bol	2022	DEN
## 156	1695921	3057408.4	-1.361487e+06	Boris Diaw	2004	ATL
## 157	1765418	1821402.4	-5.598441e+04	Boris Diaw	2005	ATL
## 158	12549327	11324704.8	1.224622e+06	Boris Diaw	2009	TOT
## 159	12549327	6927354.9	5.621972e+06	Boris Diaw	2009	PHO
## 160	12730969	9469936.3	3.261033e+06	Boris Diaw	2010	CHA
## 161	9589074	7675265.4	1.913809e+06	Boris Diaw	2016	SAS
## 162	11626363	13042735.5	-1.416373e+06	Brad Miller	2004	SAC

## 163	14473504	12488839.7	1.984664e+06	Brad Miller	2007	SAC
## 164	17328264	10621371.1	6.706893e+06	Brad Miller	2010	CHI
## 165	5643805	4721393.2	9.224118e+05	Bradley Beal	2014	WAS
## 166	29614095	23377753.0	6.236342e+06	Bradley Beal	2018	WAS
## 167	34028421	34443596.6	-4.151756e+05	Bradley Beal	2021	WAS
## 168	3062229	6036963.6	-2.974735e+06	Brandon Clarke	2022	MEM
## 169	4472897	6279013.0	-1.806116e+06	Brandon Clarke	2023	MEM
## 170	68828	782928.8	-7.141008e+05	Brandon Goodwin	2019	DEN
## 171	2013876	2413504.2	-3.996282e+05	Brandon Goodwin	2021	ATL
## 172	609439	1762810.7	-1.153372e+06	Brandon Hunter	2004	BOS
## 173	33091731	29137462.5	3.954268e+06	Brandon Ingram	2022	NOP
## 174	4227385	5101761.9	-8.743769e+05	Brandon Jennings	2013	MIL
## 175	7073085	9317676.6	-2.244592e+06	Brandon Jennings	2017	TOT
## 176	4549460	5922647.7	-1.373188e+06	Brandon Knight	2015	TOT
## 177	17715559	13751599.5	3.963960e+06	Brandon Knight	2019	TOT
## 178	18634313	8617066.8	1.001725e+07	Brandon Knight	2020	CLE
## 179	18634313	8491129.6	1.014318e+07	Brandon Knight	2020	DET
## 180	18926094	10273814.3	8.652280e+06	Brandon Roy	2011	POR
## 181	5226617	4438168.6	7.884484e+05	Brandon Rush	2014	UTA
## 182	93534	1039612.1	-9.460781e+05	Brandon Sampson	2019	CHI
## 183	8968909	12045997.9	-3.077089e+06	Brent Barry	2004	SEA
## 184	6859564	6206679.2	6.528848e+05	Brent Barry	2005	SAS
## 185	7215945	12667587.4	-5.451642e+06	Brevin Knight	2006	CHA
## 186	6616459	9902475.8	-3.286017e+06	Brevin Knight	2007	CHA
## 187	1102310	6531024.5	-5.428715e+06	Brian Cardinal	2004	GSW
## 188	8460382	4952760.6	3.507621e+06	Brian Cardinal	2006	MEM
## 189	8784528	5828213.5	2.956314e+06	Brian Cardinal	2009	MIN
## 190	1561990	2541362.8	-9.793728e+05	Brian Cook	2005	LAL
## 191	5125371	4927936.1	1.974349e+05	Brian Cook	2008	LAL
## 192	1653356	4381404.0	-2.728048e+06	Brian Cook	2012	TOT
## 193	629693	2474660.3	-1.844967e+06	Brian Roberts	2013	NOH
## 194	3497303	2719772.3	7.775307e+05	Brian Roberts	2015	CHO
## 195	3650164	3765155.0	-1.149910e+05	Brian Roberts	2016	TOT
## 196	4471599	4780901.5	-3.093025e+05	Brian Scalabrine	2009	BOS
## 197	1827746	7163944.7	-5.336199e+06	Brian Scalabrine	2012	CHI
## 198	789231	1022739.5	-2.335085e+05	Briante Weber	2017	TOT
## 199	789231	601924.6	1.873064e+05	Briante Weber	2017	GSW
## 200	25173237	21132897.8	4.040339e+06	Brook Lopez	2016	BRK
## 201	15028006	14720712.5	3.072935e+05	Brook Lopez	2021	MIL
## 202	14938236	10726563.1	4.211673e+06	Brook Lopez	2022	MIL
## 203	4825129	7030312.8	-2.205184e+06	Bruce Bowen	2005	SAS
## 204	3053175	2497876.4	5.552986e+05	Bruno Caboclo	2018	TOT
## 205	3053175	2393925.2	6.592498e+05	Bruno Caboclo	2018	SAC
## 206	2001846	1484169.7	5.176763e+05	Bruno Fernando	2022	BOS
## 207	194835	1047203.0	-8.523680e+05	Bryce Cotton	2015	UTA
## 208	687989	1254394.8	-5.664058e+05	Bryn Forbes	2017	SAS
## 209	2766067	8411263.8	-5.645197e+06	Bryn Forbes	2021	MIL
## 210	5053407	6225546.0	-1.172139e+06	Bryn Forbes	2022	SAS
## 211	5053407	5490979.3	-4.375723e+05	Bryn Forbes	2022	DEN
## 212	4452486	3667559.7	7.849263e+05	Buddy Hield	2017	TOT
## 213	4641927	7617892.7	-2.975966e+06	Buddy Hield	2019	SAC
## 214	25910765	9808513.5	1.610225e+07	Buddy Hield	2022	SAC
## 215	1704661	2826608.0	-1.121947e+06	CJ Elleby	2022	POR
## 216	29847101	22662273.2	7.184828e+06	CJ McCollum	2018	POR

## 217	32824930	26156553.2	6.668377e+06	CJ McCollum	2020	POR
## 218	1777172	7485833.4	-5.708661e+06	Calbert Cheaney	2004	GSW
## 219	2760883	6960956.7	-4.200074e+06	Calbert Cheaney	2006	GSW
## 220	947806	3065321.2	-2.117515e+06	Caleb Martin	2022	MIA
## 221	6671373	4875962.9	1.795410e+06	Caleb Martin	2023	MIA
## 222	11471824	6156654.2	5.315170e+06	Calvin Booth	2007	WAS
## 223	5244493	3788030.2	1.456463e+06	Cam Reddish	2022	ATL
## 224	5244493	2565822.8	2.678670e+06	Cam Reddish	2022	NYK
## 225	4804499	2748407.9	2.056091e+06	Cameron Johnson	2020	PHO
## 226	6062721	8025523.0	-1.962802e+06	Cameron Johnson	2023	TOT
## 227	2674226	1753940.9	9.202851e+05	Cameron Payne	2017	OKC
## 228	2674226	1145358.0	1.528868e+06	Cameron Payne	2017	CHI
## 229	4165592	3752229.7	4.133623e+05	Cameron Payne	2019	TOT
## 230	19177476	14250770.3	4.926706e+06	Caris LeVert	2021	BRK
## 231	19177476	22340502.1	-3.163026e+06	Caris LeVert	2021	IND
## 232	19652138	20970565.3	-1.318427e+06	Caris LeVert	2022	TOT
## 233	5318313	8590853.4	-3.272540e+06	Carl Landry	2013	GSW
## 234	8630166	12606202.4	-3.976036e+06	Carl Landry	2016	PHI
## 235	6433505	4258804.1	2.174701e+06	Carlos Arroyo	2005	TOT
## 236	1566718	6163738.7	-4.597021e+06	Carlos Arroyo	2010	MIA
## 237	17639867	5268310.8	1.237156e+07	Carlos Boozer	2005	UTA
## 238	19991810	16329138.2	3.662672e+06	Carlos Boozer	2014	CHI
## 239	1521146	1728325.4	-2.071794e+05	Carlos Delfino	2006	DET
## 240	4899325	9137302.7	-4.237978e+06	Carlos Delfino	2011	MIL
## 241	5825526	7635614.1	-1.810088e+06	Carmelo Anthony	2006	DEN
## 242	19097502	20155673.3	-1.058171e+06	Carmelo Anthony	2008	DEN
## 243	25860300	25669392.6	1.909074e+05	Carmelo Anthony	2013	NYK
## 244	2966564	9480023.7	-6.513460e+06	Carmelo Anthony	2022	LAL
## 245	13835692	13192558.7	6.431333e+05	Caron Butler	2010	TOT
## 246	14784708	14454617.6	3.300904e+05	Caron Butler	2011	DAL
## 247	10958898	6461952.8	4.496945e+06	Caron Butler	2014	OKC
## 248	122553	1035481.4	-9.129284e+05	Cartier Martin	2010	GSW
## 249	1680175	2133056.5	-4.528815e+05	Casey Jacobsen	2004	PHO
## 250	1740520	2465713.4	-7.251934e+05	Casey Jacobsen	2005	TOT
## 251	557073	1652668.2	-1.095595e+06	Cassius Stanley	2021	IND
## 252	531538	925550.4	-3.940124e+05	Cassius Winston	2021	WAS
## 253	76151	1046851.9	-9.707009e+05	Cedric Jackson	2010	SAS
## 254	2411338	1778145.8	6.331922e+05	Chandler Hutchison	2019	CHI
## 255	2891870	2361832.4	5.300376e+05	Chandler Hutchison	2021	TOT
## 256	1210615	3745906.7	-2.535292e+06	Chandler Parsons	2014	HOU
## 257	28787656	9067743.2	1.971991e+07	Chandler Parsons	2018	MEM
## 258	3392874	3458693.6	-6.581957e+04	Channing Frye	2006	NYK
## 259	2829104	9413598.8	-6.584495e+06	Channing Frye	2010	PHO
## 260	10475141	7958678.4	2.516463e+06	Channing Frye	2016	ORL
## 261	1039045	2667065.1	-1.628020e+06	Charles Bassey	2022	PHI
## 262	10716402	7140970.0	3.575432e+06	Charlie Villanueva	2013	DET
## 263	2734239	7199508.8	-4.465270e+06	Charlie Ward	2005	HOU
## 264	1252852	3525894.7	-2.273043e+06	Chase Budinger	2013	MIN
## 265	685076	700285.4	-1.520940e+04	Chasson Randle	2017	PHI
## 266	9570407	16004548.0	-6.434141e+06	Chauncey Billups	2007	DET
## 267	18407466	16985796.0	1.421670e+06	Chauncey Billups	2011	TOT
## 268	18407466	16889191.2	1.518275e+06	Chauncey Billups	2011	NYK
## 269	1078066	2305730.9	-1.227665e+06	Chimezie Metu	2021	SAC
## 270	1967596	6623433.8	-4.655838e+06	Chimezie Metu	2023	SAC

## 271	2573402	5302565.9	-2.729164e+06	Chris Andersen	2005	NOH
## 272	5163115	7848318.4	-2.685203e+06	Chris Andersen	2010	DEN
## 273	8124131	7170629.7	9.535013e+05	Chris Andersen	2014	MIA
## 274	6784666	8629597.3	-1.844931e+06	Chris Andersen	2015	MIA
## 275	4835437	3673401.4	1.162036e+06	Chris Bosh	2004	TOR
## 276	18239002	18889847.8	-6.508458e+05	Chris Bosh	2008	TOR
## 277	20297205	17525943.8	2.771261e+06	Chris Bosh	2011	MIA
## 278	699436	4625971.3	-3.926535e+06	Chris Douglas-Roberts	2014	CHA
## 279	1171626	2703883.1	-1.532257e+06	Chris Douglas-Roberts	2015	LAC
## 280	4210498	4018326.5	1.921715e+05	Chris Duarte	2022	IND
## 281	4392314	2725992.2	1.666322e+06	Chris Duhon	2006	CHI
## 282	4547312	2602729.7	1.944582e+06	Chris Duhon	2007	CHI
## 283	1395761	1922241.9	-5.264809e+05	Chris Jefferies	2004	TOR
## 284	676204	804698.7	-1.284947e+05	Chris Johnson	2013	MEM
## 285	6392716	5535493.8	8.572222e+05	Chris Kaman	2016	POR
## 286	1508315	1355358.0	1.529570e+05	Chris McCullough	2017	TOT
## 287	5422468	9542396.2	-4.119928e+06	Chris Mihm	2005	LAL
## 288	4932318	5128149.9	-1.958319e+05	Chris Paul	2006	NOK
## 289	45867637	34226786.1	1.164085e+07	Chris Paul	2020	OKC
## 290	1006705	2036748.5	-1.030043e+06	Chris Quinn	2008	MIA
## 291	1206603	3635740.4	-2.429137e+06	Chris Quinn	2011	SAS
## 292	27459845	18289615.3	9.170230e+06	Chris Webber	2007	TOT
## 293	9518547	11181399.4	-1.662852e+06	Chris Wilcox	2008	SEA
## 294	181901	1196685.3	-1.014784e+06	Chris Wright	2014	MIL
## 295	2891992	2839832.7	5.215927e+04	Christian Braun	2023	DEN
## 296	9342613	9503372.8	-1.607598e+05	Christian Laettner	2004	WAS
## 297	1831461	3072009.1	-1.240548e+06	Christian Wood	2019	TOT
## 298	1831461	1965573.8	-1.341128e+05	Christian Wood	2019	MIL
## 299	1959894	6210977.5	-4.251084e+06	Christian Wood	2020	DET
## 300	2562685	3793446.2	-1.230761e+06	Chuck Hayes	2008	HOU
## 301	7477329	6060595.1	1.416734e+06	Chuck Hayes	2014	TOT
## 302	7477329	5952857.4	1.524472e+06	Chuck Hayes	2014	TOR
## 303	1588871	3835935.0	-2.247064e+06	Clint Capela	2016	HOU
## 304	6595401	5303160.7	1.292240e+06	Coby White	2021	CHI
## 305	1796567	2111466.1	-3.148991e+05	Cody Martin	2021	CHO
## 306	5159623	2845882.7	2.313740e+06	Cody Zeller	2015	CHO
## 307	15674609	6682939.8	8.991669e+06	Cody Zeller	2018	CHO
## 308	17238456	14570645.1	2.667811e+06	Cody Zeller	2020	CHO
## 309	5908011	7755463.3	-1.847452e+06	Collin Sexton	2021	CLE
## 310	4125003	3752955.0	3.720480e+05	Corey Brewer	2010	MIN
## 311	5184147	4356154.8	8.279922e+05	Corey Brewer	2011	TOT
## 312	4134858	7495920.1	-3.361062e+06	Corey Brewer	2012	DEN
## 313	4311822	8745557.5	-4.433736e+06	Corey Brewer	2013	DEN
## 314	3099564	9139722.6	-6.040159e+06	Corey Brewer	2019	PHI
## 315	11626363	15839121.9	-4.212759e+06	Corey Maggette	2004	LAC
## 316	11258634	15768021.2	-4.509387e+06	Corey Maggette	2005	LAC
## 317	10980786	13285158.9	-2.304373e+06	Corey Maggette	2006	LAC
## 318	14524498	5870230.0	8.654268e+06	Corey Maggette	2013	DET
## 319	649453	2050823.1	-1.401370e+06	Cory Jefferson	2015	BRK
## 320	1469928	1796724.4	-3.267964e+05	Cory Joseph	2013	SAS
## 321	8949802	6546828.0	2.402974e+06	Cory Joseph	2016	TOR
## 322	9503711	9558990.4	-5.527937e+04	Cory Joseph	2018	IND
## 323	14912405	7134083.5	7.778322e+06	Cory Joseph	2021	SAC
## 324	8208979	12101512.7	-3.892534e+06	Cory Joseph	2022	DET

## 325	56783	599233.3	-5.424503e+05	Courtney Fortson	2012	TOT
## 326	3007663	3674136.1	-6.664731e+05	Courtney Lee	2012	HOU
## 327	6827268	7219188.8	-3.919208e+05	Courtney Lee	2014	MEM
## 328	7255732	7009282.1	2.464499e+05	Courtney Lee	2016	MEM
## 329	14632838	14602714.1	3.012392e+04	Courtney Lee	2018	NYK
## 330	14836911	10020156.5	4.816755e+06	Courtney Lee	2019	TOT
## 331	15198893	7307820.6	7.891072e+06	Courtney Lee	2020	DAL
## 332	3485924	3311377.9	1.745461e+05	Craig Smith	2009	MIN
## 333	11294523	11203472.2	9.105085e+04	Cuttino Mobley	2006	LAC
## 334	32309411	25653127.7	6.656283e+06	D'Angelo Russell	2023	MIN
## 335	1775311	3317980.2	-1.542669e+06	Daequan Cook	2009	MIA
## 336	1926789	2569860.6	-6.430716e+05	Daequan Cook	2010	MIA
## 337	4790038	4726774.4	6.326364e+04	Daequan Cook	2013	HOU
## 338	2836224	3568246.3	-7.320223e+05	Dahntay Jones	2007	MEM
## 339	3649596	5125178.9	-1.475583e+06	Dahntay Jones	2012	IND
## 340	1036597	1500473.0	-4.638760e+05	Daishen Nix	2022	HOU
## 341	1760235	4392160.5	-2.631925e+06	Damian Jones	2021	PHO
## 342	1760235	5197757.6	-3.437523e+06	Damian Jones	2021	SAC
## 343	2220142	8481433.7	-6.261292e+06	Damian Jones	2022	SAC
## 344	2366628	5621602.5	-3.254975e+06	Damian Jones	2023	TOT
## 345	4075211	4689861.6	-6.146506e+05	Damian Lillard	2013	POR
## 346	4276797	6882898.2	-2.606101e+06	Damian Lillard	2015	POR
## 347	30797788	23005779.9	7.792008e+06	Damian Lillard	2017	POR
## 348	35499530	32610648.0	2.888882e+06	Damian Lillard	2020	POR
## 349	44183510	30229436.5	1.395407e+07	Damian Lillard	2022	POR
## 350	619670	1402950.7	-7.832807e+05	Damien Wilkins	2005	SEA
## 351	4668022	6422973.6	-1.754952e+06	Damien Wilkins	2010	MIN
## 352	1549506	4265609.5	-2.716104e+06	Damien Wilkins	2012	DET
## 353	1236473	6833471.3	-5.596998e+06	Damien Wilkins	2018	IND
## 354	1680274	1484870.5	1.954035e+05	Damion James	2012	NJN
## 355	172186	1895622.0	-1.723436e+06	Damion Lee	2018	ATL
## 356	2196618	6817178.8	-4.620561e+06	Damion Lee	2023	PHO
## 357	5841548	6168660.3	-3.271123e+05	Damon Jones	2007	CLE
## 358	20553750	10130646.2	1.042310e+07	Damon Stoudamire	2004	POR
## 359	7184948	8633943.1	-1.448995e+06	Damon Stoudamire	2008	TOT
## 360	1927927	2483446.9	-5.555199e+05	Damyean Dotson	2020	NYK
## 361	2367048	3315121.6	-9.480736e+05	Damyean Dotson	2021	CLE
## 362	1002833	2231596.5	-1.228764e+06	Dan Langhi	2004	TOT
## 363	620620	2320233.2	-1.699613e+06	Daniel Gibson	2007	CLE
## 364	5783396	3327349.6	2.456046e+06	Daniel Gibson	2010	CLE
## 365	9298663	8565070.2	7.335928e+05	Daniel Theis	2022	HOU
## 366	26138302	27844096.0	-1.705794e+06	Danilo Gallinari	2019	LAC
## 367	23078722	12578889.7	1.049983e+07	Danilo Gallinari	2021	ATL
## 368	22993002	14903216.8	8.089785e+06	Danilo Gallinari	2022	ATL
## 369	2068968	2788705.8	-7.197378e+05	Danny Granger	2006	IND
## 370	3248609	8552396.2	-5.303787e+06	Danny Granger	2009	IND
## 371	15360368	16757781.1	-1.397413e+06	Danny Granger	2011	IND
## 372	18788695	8999699.7	9.788995e+06	Danny Granger	2014	TOT
## 373	647282	979734.8	-3.324528e+05	Danny Green	2010	CLE
## 374	5152505	12457417.3	-7.304912e+06	Danny Green	2015	SAS
## 375	12108028	12557504.2	-4.494762e+05	Danny Green	2019	TOR
## 376	12058233	9477061.4	2.581172e+06	Danny Green	2023	CLE
## 377	647282	1929484.5	-1.282203e+06	Dante Cunningham	2010	POR
## 378	1066926	2250895.1	-1.183969e+06	Dante Cunningham	2011	CHA

## 379	2778818	3818033.8	-1.039216e+06	Dante Cunningham	2013	MIN
## 380	1064989	5244042.0	-4.179053e+06	Dante Cunningham	2015	NOP
## 381	2864814	7092546.2	-4.227732e+06	Dante Cunningham	2018	NOP
## 382	4988121	2833912.5	2.154209e+06	Dante Exum	2017	UTA
## 383	7954135	6671746.6	1.282388e+06	Darius Garland	2021	CLE
## 384	60633	890472.1	-8.298391e+05	Darius Johnson-Odom	2014	PHI
## 385	6860718	4305018.1	2.555700e+06	Darius Miles	2004	CLE
## 386	1246074	1603243.2	-3.571692e+05	Darius Morris	2013	LAL
## 387	5488653	4007421.5	1.481231e+06	Darius Songaila	2007	WAS
## 388	6402263	6073401.2	3.288618e+05	Darius Songaila	2010	NOH
## 389	1041704	1483621.6	-4.419176e+05	Darnell Jackson	2010	TOT
## 390	1041704	1446317.0	-4.046130e+05	Darnell Jackson	2010	CLE
## 391	3659056	8955711.1	-5.296655e+06	Darrell Armstrong	2005	NOH
## 392	3659056	5264293.0	-1.605237e+06	Darrell Armstrong	2005	DAL
## 393	1485958	2261515.7	-7.755577e+05	Darrell Arthur	2010	MEM
## 394	1968024	2897654.7	-9.296307e+05	Darren Collison	2012	IND
## 395	6141612	12092011.8	-5.950400e+06	Darren Collison	2015	SAC
## 396	6410051	8230267.6	-1.820217e+06	Darren Collison	2016	SAC
## 397	12108028	17850530.7	-5.742503e+06	Darren Collison	2019	IND
## 398	1785957	5407801.4	-3.621844e+06	Darrick Martin	2008	TOR
## 399	1351446	5652037.6	-4.300592e+06	Darvin Ham	2004	DET
## 400	3253469	2858310.8	3.951582e+05	David Andersen	2010	HOU
## 401	3499518	2562688.7	9.368293e+05	David Andersen	2011	NOH
## 402	2493178	5669731.5	-3.176553e+06	David Lee	2009	NYK
## 403	9901865	17892452.7	-7.990588e+06	David Lee	2010	NYK
## 404	19217247	8395618.1	1.082163e+07	David Lee	2015	GSW
## 405	1831461	2296054.2	-4.645932e+05	David Nwaba	2019	CLE
## 406	1075755	3225248.4	-2.149493e+06	David Nwaba	2020	BRK
## 407	2158751	6903736.6	-4.744986e+06	David Nwaba	2021	HOU
## 408	6577200	15560087.5	-8.982888e+06	David Wesley	2004	NOH
## 409	7165316	11571191.6	-4.405876e+06	David Wesley	2005	NOH
## 410	15679851	17442376.6	-1.762526e+06	David West	2014	IND
## 411	5169298	4082924.7	1.086373e+06	Davion Mitchell	2022	SAC
## 412	4977118	2505187.6	2.471930e+06	Davion Mitchell	2023	SAC
## 413	5741088	4936158.2	8.049298e+05	De'Aaron Fox	2018	SAC
## 414	8731613	4113729.5	4.617883e+06	De'Andre Hunter	2022	ATL
## 415	1013398	1614511.8	-6.011138e+05	DeAndre Liggins	2013	OKC
## 416	1875758	5693874.7	-3.818117e+06	DeAndre Liggins	2018	TOT
## 417	1401375	3607297.5	-2.205923e+06	DeJuan Blair	2013	SAS
## 418	4446442	4973721.3	-5.272793e+05	DeMar DeRozan	2013	TOR
## 419	12413215	16027730.2	-3.614515e+06	DeMar DeRozan	2014	TOR
## 420	12146160	20567205.3	-8.421045e+06	DeMar DeRozan	2016	TOR
## 421	5159827	6291733.4	-1.131906e+06	DeMarcus Cousins	2013	SAC
## 422	19946356	20490059.7	-5.437037e+05	DeMarcus Cousins	2017	NOP
## 423	3611916	15014074.7	-1.140216e+07	DeMarcus Cousins	2021	HOU
## 424	2289689	9919896.0	-7.630207e+06	DeMarcus Cousins	2022	MIL
## 425	1126931	1883353.3	-7.564223e+05	DeMarre Carroll	2012	TOT
## 426	1126931	2059224.2	-9.322932e+05	DeMarre Carroll	2012	UTA
## 427	1176836	3178764.2	-2.001928e+06	DeMarre Carroll	2013	UTA
## 428	3266635	7332019.2	-4.065384e+06	DeMarre Carroll	2014	ATL
## 429	2684173	4257582.6	-1.573410e+06	DeShawn Stevenson	2004	TOT
## 430	2684173	3355759.0	-6.715860e+05	DeShawn Stevenson	2004	ORL
## 431	5498262	6158889.5	-6.606275e+05	DeShawn Stevenson	2010	TOT
## 432	5498262	5725767.7	-2.275057e+05	DeShawn Stevenson	2010	WAS

## 433	1796567	2590601.6	-7.940346e+05	Dean Wade	2021	CLE
## 434	2001846	2387342.8	-3.854968e+05	Dean Wade	2022	CLE
## 435	620620	1234471.9	-6.138519e+05	Dee Brown	2007	UTA
## 436	332649	1532313.9	-1.199665e+06	Dee Brown	2009	TOT
## 437	332649	1655248.1	-1.322599e+06	Dee Brown	2009	WAS
## 438	332649	701426.4	-3.687774e+05	Dee Brown	2009	PHO
## 439	1634951	4808551.5	-3.173600e+06	Dejounte Murray	2018	SAS
## 440	17577991	24366525.8	-6.788535e+06	Dejounte Murray	2023	ATL
## 441	1584433	2845111.2	-1.260678e+06	Delonte West	2006	BOS
## 442	1497106	6293425.9	-4.796320e+06	Delonte West	2011	BOS
## 443	1549506	10103631.1	-8.554125e+06	Delonte West	2012	DAL
## 444	122555	1200317.3	-1.077762e+06	Demetris Nichols	2009	TOT
## 445	5289359	3255089.3	2.034270e+06	Deni Avdija	2021	WAS
## 446	1198314	3545717.2	-2.347403e+06	DerMarr Johnson	2005	DEN
## 447	13580325	7337342.9	6.242982e+06	Derek Anderson	2005	POR
## 448	7140659	7262321.2	-1.216622e+05	Derek Fisher	2010	LAL
## 449	5179287	6540487.7	-1.361201e+06	Derek Fisher	2011	LAL
## 450	4595788	4230263.3	3.655247e+05	Derek Fisher	2012	OKC
## 451	2019913	3673096.6	-1.653184e+06	Derek Fisher	2013	OKC
## 452	20913333	18582901.1	2.330432e+06	Deron Williams	2011	UTA
## 453	20462568	22625143.9	-2.162576e+06	Derrick Favors	2019	UTA
## 454	10957067	8803780.6	2.153286e+06	Derrick Favors	2021	UTA
## 455	3155640	8607954.4	-5.452314e+06	Derrick Rose	2018	MIN
## 456	2018602	3857594.2	-1.838992e+06	Derrick White	2019	SAS
## 457	2320487	3747029.8	-1.426543e+06	Derrick White	2020	SAS
## 458	4161607	6429964.0	-2.268357e+06	Derrick White	2021	SAS
## 459	17651858	15598000.0	2.053858e+06	Derrick White	2023	BOS
## 460	5625590	10195499.3	-4.569909e+06	Derrick Williams	2016	NYK
## 461	11503680	10191175.9	1.312504e+06	Desmond Mason	2006	NOK
## 462	3469307	6004779.4	-2.535472e+06	Devean George	2008	DAL
## 463	2263283	5554083.8	-3.290801e+06	Devean George	2010	GSW
## 464	2814895	6141422.8	-3.326528e+06	Devin Booker	2017	PHO
## 465	1757270	6964910.2	-5.207640e+06	Devin Brown	2008	CLE
## 466	1382761	1657229.8	-2.744688e+05	Devin Ebanks	2013	LAL
## 467	4965474	6234102.2	-1.268628e+06	Devin Harris	2015	DAL
## 468	5483686	8003392.8	-2.519707e+06	Devin Harris	2018	TOT
## 469	2898525	7042344.0	-4.143819e+06	Devin Harris	2019	DAL
## 470	1080444	1433430.7	-3.529867e+05	Devyn Marble	2016	ORL
## 471	15882222	11109582.7	4.772639e+06	Dewayne Dedmon	2020	TOT
## 472	15882222	10542470.8	5.339751e+06	Dewayne Dedmon	2020	SAC
## 473	8529645	7797291.1	7.323539e+05	Dewayne Dedmon	2023	MIA
## 474	133984	1004431.2	-8.704472e+05	Dijon Thompson	2007	ATL
## 475	13492176	7482759.4	6.009417e+06	Dillon Brooks	2021	MEM
## 476	11738486	14705653.9	-2.967168e+06	Dillon Brooks	2023	MEM
## 477	1660909	6764175.8	-5.103267e+06	Dion Glover	2004	TOT
## 478	21715534	22994513.0	-1.278979e+06	Dirk Nowitzki	2006	DAL
## 479	28002070	24883426.4	3.118644e+06	Dirk Nowitzki	2010	DAL
## 480	29688989	23737637.2	5.951352e+06	Dirk Nowitzki	2014	DAL
## 481	20775118	22165712.3	-1.390594e+06	Domantas Sabonis	2022	IND
## 482	625534	2079768.8	-1.454235e+06	Dominic McGuire	2008	WAS
## 483	992117	3067533.8	-2.075417e+06	Dominic McGuire	2009	WAS
## 484	524000	2088865.1	-1.564865e+06	Dominick Barlow	2023	SAS
## 485	268487	993872.1	-7.253851e+05	Donald Sloan	2012	TOT
## 486	399398	774625.5	-3.752275e+05	Donald Sloan	2013	CLE

## 487	5250860	4263770.7	9.870893e+05	Donte DiVincenzo	2022	TOT
## 488	4633612	10511346.4	-5.877734e+06	Donte DiVincenzo	2023	GSW
## 489	8811195	7983215.1	8.279799e+05	Donyell Marshall	2008	TOT
## 490	1853235	1344460.6	5.087744e+05	Dorell Wright	2005	MIA
## 491	4899325	11568359.8	-6.669035e+06	Dorell Wright	2011	GSW
## 492	4025995	6338994.9	-2.313000e+06	Dorell Wright	2015	POR
## 493	13324055	9550656.1	3.773399e+06	Dorian Finney-Smith	2023	TOT
## 494	13324055	9116773.3	4.207282e+06	Dorian Finney-Smith	2023	DAL
## 495	13324055	10491192.3	2.832863e+06	Dorian Finney-Smith	2023	BRK
## 496	8879221	6391783.2	2.487438e+06	Doug McDermott	2019	IND
## 497	14158261	7837759.8	6.320501e+06	Doug McDermott	2023	SAS
## 498	1155733	3580626.6	-2.424894e+06	Doug Overton	2004	TOT
## 499	5413470	2419510.5	2.993960e+06	Dragan Bender	2017	PHO
## 500	225964	2803754.7	-2.577791e+06	Dragan Bender	2020	TOT
## 501	225964	3006606.7	-2.780643e+06	Dragan Bender	2020	GSW
## 502	1130141	1974051.0	-8.439100e+05	Draymond Green	2013	GSW
## 503	22083193	15775821.9	6.307371e+06	Draymond Green	2020	GSW
## 504	1917976	2757797.1	-8.398211e+05	Drew Eubanks	2021	SAS
## 505	2515271	3862732.3	-1.347461e+06	Drew Eubanks	2022	SAS
## 506	2515271	4688721.8	-2.173451e+06	Drew Eubanks	2022	POR
## 507	5169450	4773106.3	3.963437e+05	Drew Gooden	2005	CLE
## 508	9450330	10536152.4	-1.085822e+06	Drew Gooden	2008	TOT
## 509	9450330	9841335.9	-3.910059e+05	Drew Gooden	2008	CHI
## 510	9971392	11211349.7	-1.239958e+06	Drew Gooden	2009	CHI
## 511	6365484	7916561.2	-1.551077e+06	Drew Gooden	2010	DAL
## 512	8415970	18265239.3	-9.849269e+06	Drew Gooden	2012	MIL
## 513	8881583	6759584.1	2.121999e+06	Drew Gooden	2013	MIL
## 514	4219192	6188035.4	-1.968843e+06	Drew Gooden	2016	WAS
## 515	94290	729916.2	-6.356262e+05	Drew Gordon	2015	PHI
## 516	385472	866210.4	-4.807384e+05	Dru Smith	2023	TOT
## 517	57355	444760.9	-3.874059e+05	Dusty Hannahs	2019	MEM
## 518	3055048	10317911.6	-7.262864e+06	Dwight Howard	2020	LAL
## 519	649453	1029233.4	-3.797804e+05	Dwight Powell	2015	DAL
## 520	5776534	9867692.2	-4.091158e+06	Dwyane Wade	2007	MIA
## 521	21209564	24136439.4	-2.926875e+06	Dwyane Wade	2012	MIA
## 522	24220143	21545015.4	2.675128e+06	Dwyane Wade	2014	MIA
## 523	29369295	27685011.7	1.684283e+06	Dwyane Wade	2017	CHI
## 524	22269140	14167555.9	8.101584e+06	Dwyane Wade	2018	MIA
## 525	2898525	16590530.4	-1.369201e+07	Dwyane Wade	2019	MIA
## 526	10321373	8103240.9	2.218132e+06	E'Twaun Moore	2020	NOP
## 527	1425333	3045349.1	-1.620016e+06	Earl Barron	2008	MIA
## 528	499329	4616100.2	-4.116771e+06	Earl Barron	2015	PHO
## 529	5698995	5694767.7	4.227342e+03	Earl Clark	2014	CLE
## 530	5698995	3536171.3	2.162824e+06	Earl Clark	2014	NYK
## 531	2219805	2599347.6	-3.795426e+05	Earl Watson	2004	MEM
## 532	8120200	8608397.4	-4.881974e+05	Earl Watson	2007	SEA
## 533	5386861	10306316.8	-4.919456e+06	Ed Davis	2019	BRK
## 534	4060100	4810249.7	-7.501497e+05	Eddie Griffin	2007	MIN
## 535	2232951	7465412.4	-5.232461e+06	Eddie House	2005	CHA
## 536	1311121	8370622.7	-7.059502e+06	Eddie House	2006	PHO
## 537	2196587	7699570.4	-5.502983e+06	Eddie House	2008	BOS
## 538	1892792	5642197.8	-3.749406e+06	Eddie House	2011	MIA
## 539	4453805	2086546.4	2.367259e+06	Ekpe Udoh	2012	MIL
## 540	4686604	2149702.6	2.536901e+06	Ekpe Udoh	2013	MIL

## 541	4150668	5363394.3	-1.212726e+06	Elfrid Payton	2018	ORL
## 542	451243	1541865.0	-1.090622e+06	Elijah Millsap	2016	UTA
## 543	18203563	17615029.3	5.885337e+05	Elton Brand	2004	LAC
## 544	23059676	13891888.6	9.167787e+06	Elton Brand	2012	PHI
## 545	2560251	5667078.9	-3.106828e+06	Elton Brand	2015	ATL
## 546	5199767	5465308.7	-2.655417e+05	Emmanuel Mudiay	2019	NYK
## 547	17260333	17438609.9	-1.782769e+05	Eric Bledsoe	2016	PHO
## 548	17722850	22299601.5	-4.576752e+06	Eric Bledsoe	2017	PHO
## 549	18060788	10766219.5	7.294568e+06	Eric Bledsoe	2018	PHO
## 550	18162042	24950826.7	-6.788785e+06	Eric Bledsoe	2019	MIL
## 551	18611978	27760284.8	-9.148307e+06	Eric Bledsoe	2020	MIL
## 552	16346292	17908241.3	-1.561949e+06	Eric Gordon	2019	HOU
## 553	20459356	16882836.3	3.576520e+06	Eric Gordon	2022	HOU
## 554	3109511	2697533.0	4.119780e+05	Eric Maynor	2013	OKC
## 555	3109511	3306161.6	-1.966506e+05	Eric Maynor	2013	POR
## 556	9201436	8353983.4	8.474526e+05	Eric Williams	2004	CLE
## 557	6460070	7653877.5	-1.193807e+06	Eric Williams	2007	CHA
## 558	7780734	7649860.7	1.308733e+05	Ervin Johnson	2005	MIN
## 559	1043199	1499044.6	-4.558456e+05	Eugene Omoruyi	2023	OKC
## 560	1810088	2071111.5	-2.610235e+05	Evan Fournier	2013	DEN
## 561	6442921	2548092.7	3.894828e+06	Evan Turner	2011	PHI
## 562	6688007	3377850.2	3.310157e+06	Evan Turner	2012	PHI
## 563	21635658	10054055.2	1.158160e+07	Evan Turner	2019	POR
## 564	3647189	1847628.1	1.799561e+06	Fabricio Oberto	2006	SAS
## 565	997267	2166545.2	-1.169278e+06	Francisco Elson	2005	DEN
## 566	4393175	6089335.5	-1.696160e+06	Francisco Elson	2008	TOT
## 567	3340219	2397002.1	9.432169e+05	Frank Kaminsky	2016	CHO
## 568	5031757	2424834.9	2.606922e+06	Frank Ntilikina	2019	NYK
## 569	2009297	5730091.6	-3.720795e+06	Frank Ntilikina	2022	DAL
## 570	2529139	3389152.3	-8.600133e+05	Fred Jones	2005	IND
## 571	3653218	3440514.3	2.127037e+05	Fred Jones	2006	IND
## 572	1634951	3766057.6	-2.131107e+06	Fred VanVleet	2018	TOR
## 573	11132825	8360640.0	2.772185e+06	Fred VanVleet	2020	TOR
## 574	5148458	5577553.1	-4.290951e+05	Furkan Korkmaz	2023	PHI
## 575	782013	2493419.4	-1.711406e+06	Gabe Vincent	2021	MIA
## 576	1869587	4437554.6	-2.567968e+06	Gabe Vincent	2023	MIA
## 577	640495	1259020.8	-6.185258e+05	Gal Mekel	2014	DAL
## 578	238488	1382099.9	-1.143612e+06	Garrett Temple	2011	TOT
## 579	238488	840434.4	-6.019464e+05	Garrett Temple	2011	SAS
## 580	1255910	4919817.8	-3.663908e+06	Garrett Temple	2015	WAS
## 581	9686422	10730706.9	-1.044285e+06	Garrett Temple	2019	TOT
## 582	5641860	8753104.9	-3.111245e+06	Garrett Temple	2021	CHI
## 583	5513828	6270955.7	-7.571277e+05	Garrett Temple	2022	NOP
## 584	5308575	5905596.0	-5.970210e+05	Garrett Temple	2023	NOP
## 585	94778	1123300.6	-1.028523e+06	Garrison Mathews	2020	WAS
## 586	2059383	2890240.9	-8.308579e+05	Garrison Mathews	2023	HOU
## 587	2059383	3671168.5	-1.611786e+06	Garrison Mathews	2023	ATL
## 588	1944766	2368971.9	-4.242059e+05	Gary Harris	2015	DEN
## 589	2096208	4014270.6	-1.918063e+06	Gary Harris	2017	DEN
## 590	3176276	6263612.4	-3.087336e+06	Gary Harris	2018	DEN
## 591	1771929	6481243.6	-4.709315e+06	Gary Payton	2007	MIA
## 592	1530092	3177657.7	-1.647566e+06	George Hill	2010	SAS
## 593	10228345	9631144.8	5.972002e+05	George Hill	2016	IND
## 594	24911432	13494193.0	1.141724e+07	George Hill	2018	CLE

## 595	12071172	11422886.0	6.482860e+05	George Hill	2020	MIL
## 596	4118767	5928739.9	-1.809973e+06	George Hill	2023	TOT
## 597	3705831	6362320.3	-2.656489e+06	Georges Niang	2022	PHI
## 598	561322	533560.5	2.776152e+04	Georgios Kalaitzakis	2022	MIL
## 599	2787855	2176964.4	6.108906e+05	Georgios Papagiannis	2017	SAC
## 600	4653524	6085155.7	-1.431632e+06	Gerald Green	2013	IND
## 601	4573289	14291459.2	-9.718170e+06	Gerald Green	2014	PHO
## 602	7671259	7441436.9	2.298221e+05	Gerald Henderson	2016	POR
## 603	11393261	13017360.2	-1.624099e+06	Gerald Henderson	2017	PHI
## 604	2657766	4464060.5	-1.806294e+06	Gerald Wallace	2005	CHA
## 605	2397931	4174469.7	-1.776539e+06	Giannis Antetokounmpo	2015	MIL
## 606	32580159	32348041.9	2.321171e+05	Giannis Antetokounmpo	2021	MIL
## 607	44183510	36183987.0	7.999523e+06	Giannis Antetokounmpo	2022	MIL
## 608	2240219	2479072.4	-2.388534e+05	Gigi Datome	2015	BOS
## 609	14177520	4761113.4	9.416407e+06	Gilbert Arenas	2004	WAS
## 610	24819555	13270394.7	1.154916e+07	Gilbert Arenas	2011	WAS
## 611	24819555	7758466.5	1.706109e+07	Gilbert Arenas	2011	ORL
## 612	26046371	4017190.0	2.202918e+07	Gilbert Arenas	2012	MEM
## 613	10020804	4602411.6	5.418392e+06	Glen Davis	2015	LAC
## 614	649453	1131051.7	-4.815987e+05	Glenn Robinson III	2015	MIN
## 615	1406397	1648198.9	-2.418019e+05	Glenn Robinson III	2016	IND
## 616	1329846	1991195.9	-6.613499e+05	Glenn Robinson III	2017	IND
## 617	2242808	7821756.4	-5.578948e+06	Glenn Robinson III	2020	GSW
## 618	2242808	6260407.5	-4.017599e+06	Glenn Robinson III	2020	PHI
## 619	5537187	3811255.2	1.725932e+06	Goga Bitadze	2023	TOT
## 620	3423808	3494815.3	-7.100728e+04	Gordon Hayward	2012	UTA
## 621	20347275	21939158.4	-1.591883e+06	Gordon Hayward	2017	UTA
## 622	19331697	12689378.3	6.642319e+06	Gorgui Dieng	2020	MIN
## 623	20815454	14615355.5	6.200099e+06	Gorgui Dieng	2021	TOT
## 624	4227127	6674966.2	-2.447839e+06	Gorgui Dieng	2023	SAS
## 625	2755832	11455087.3	-8.699255e+06	Grant Hill	2009	PHO
## 626	2939735	3503164.4	-5.634294e+05	Grant Williams	2022	BOS
## 627	2514789	2399479.9	1.153091e+05	Grayson Allen	2019	UTA
## 628	4384800	4717788.8	-3.329888e+05	Greg Buckner	2004	PHI
## 629	5591429	6204588.7	-6.131597e+05	Greg Buckner	2009	MEM
## 630	14394544	11108576.5	3.285968e+06	Greg Ostertag	2004	UTA
## 631	3496606	2495850.4	1.000756e+06	Greg Stiemsma	2014	NOP
## 632	3229937	1283008.0	1.946929e+06	Guerschon Yabusele	2019	BOS
## 633	5949181	7249971.2	-1.300790e+06	Hakim Warrick	2011	PHO
## 634	5406810	7215711.8	-1.808902e+06	Hakim Warrick	2012	PHO
## 635	5318313	7348550.0	-2.030237e+06	Hakim Warrick	2013	TOT
## 636	3720213	4233654.3	-5.134413e+05	Harrison Barnes	2013	GSW
## 637	29189136	16188519.3	1.300062e+07	Harrison Barnes	2019	TOT
## 638	29189136	17068141.5	1.212099e+07	Harrison Barnes	2019	DAL
## 639	26293066	17795600.3	8.497466e+06	Harrison Barnes	2021	SAC
## 640	620620	1569992.5	-9.493725e+05	Hassan Adams	2007	NJN
## 641	2745828	9065351.7	-6.319524e+06	Hassan Whiteside	2021	SAC
## 642	93534	780043.8	-6.865098e+05	Haywood Highsmith	2019	PHI
## 643	1804676	2540237.5	-7.355615e+05	Haywood Highsmith	2023	MIA
## 644	2157276	1888862.5	2.684135e+05	Henry Ellenson	2017	DET
## 645	1030782	2337961.8	-1.307180e+06	Henry Sims	2014	TOT
## 646	755907	1961077.4	-1.205170e+06	Henry Walker	2009	BOS
## 647	3962440	2226746.2	1.735694e+06	Hilton Armstrong	2010	TOT
## 648	640495	1907658.5	-1.267164e+06	Hollis Thompson	2014	PHI

## 649	1045199	2279408.6	-1.234210e+06	Hollis Thompson	2015	PHI
## 650	619670	1764163.4	-1.144493e+06	Horace Jenkins	2005	DET
## 651	9705937	7842666.2	1.863271e+06	Howard Easley	2004	NYK
## 652	10135864	5764728.6	4.371135e+06	Howard Easley	2005	UTA
## 653	1045198	1044672.4	5.256138e+02	Ian Clark	2015	UTA
## 654	1045198	764274.9	2.809231e+05	Ian Clark	2015	DEN
## 655	1211133	1978699.6	-7.675666e+05	Ian Clark	2016	GSW
## 656	1285787	3819511.9	-2.533725e+06	Ian Clark	2017	GSW
## 657	1066927	2387969.6	-1.321043e+06	Ian Mahinmi	2011	DAL
## 658	5318313	5924909.8	-6.065968e+05	Ian Mahinmi	2013	IND
## 659	5226617	5882444.3	-6.558273e+05	Ian Mahinmi	2014	IND
## 660	19372845	7649025.2	1.172382e+07	Ian Mahinmi	2019	WAS
## 661	13332433	11222510.8	2.109922e+06	Iman Shumpert	2019	SAC
## 662	13332433	8005871.3	5.326562e+06	Iman Shumpert	2019	HOU
## 663	1505919	5252997.6	-3.747079e+06	Ime Udoka	2009	SAS
## 664	4349612	5314452.4	-9.648404e+05	Ira Newble	2005	CLE
## 665	4627930	5083717.9	-4.557879e+05	Ira Newble	2006	CLE
## 666	5040290	5201330.9	-1.610409e+05	Ira Newble	2008	CLE
## 667	1941874	3061763.8	-1.119890e+06	Isaac Bonga	2022	TOR
## 668	901649	5695938.9	-4.794290e+06	Isaiah Canaan	2019	MIN
## 669	1941874	6074538.3	-4.132664e+06	Isaiah Hartenstein	2022	LAC
## 670	1063171	1954768.2	-8.915972e+05	Isaiah Joe	2021	PHI
## 671	1890606	3443085.2	-1.552479e+06	Isaiah Joe	2023	OKC
## 672	1609941	2480251.7	-8.703107e+05	Isaiah Livers	2023	DET
## 673	1013398	4709987.2	-3.696589e+06	Isaiah Thomas	2013	SAC
## 674	1155465	5679637.4	-4.524172e+06	Isaiah Thomas	2014	SAC
## 675	8838401	18584495.3	-9.746094e+06	Isaiah Thomas	2016	BOS
## 676	189006	10067812.4	-9.878806e+06	Isaiah Thomas	2021	NOP
## 677	1359779	3865493.1	-2.505714e+06	Isaiah Whitehead	2017	BRK
## 678	1310054	3059754.9	-1.749701e+06	Ivica Zubac	2017	LAL
## 679	7720525	6264248.4	1.456277e+06	Ivica Zubac	2020	LAC
## 680	10424040	13794227.2	-3.370187e+06	Ivica Zubac	2023	LAC
## 681	649453	2760136.3	-2.110683e+06	JaKarr Sampson	2015	PHI
## 682	1410932	1807745.0	-3.968130e+05	JaKarr Sampson	2016	DEN
## 683	96220	2174379.9	-2.078160e+06	JaKarr Sampson	2018	SAC
## 684	103471	3094940.1	-2.991469e+06	JaKarr Sampson	2019	CHI
## 685	2069229	6507799.4	-4.438570e+06	JaKarr Sampson	2020	IND
## 686	9767143	9197598.4	5.695446e+05	JaMychal Green	2019	TOT
## 687	9208430	7578098.3	1.630332e+06	JaMychal Green	2022	DEN
## 688	1776856	10584260.8	-8.807405e+06	JaVale McGee	2017	GSW
## 689	4764666	14174870.0	-9.410204e+06	JaVale McGee	2020	LAL
## 690	4970801	7386268.2	-2.415467e+06	JaVale McGee	2021	DEN
## 691	133709	1747600.6	-1.613892e+06	Jabari Brown	2015	LAL
## 692	2294044	2016614.5	2.774295e+05	Jacob Evans	2020	GSW
## 693	96220	882143.9	-7.859239e+05	Jacob Wiley	2018	BRK
## 694	1610844	4765236.3	-3.154392e+06	Jacque Vaughn	2007	SAS
## 695	2188300	1651248.0	5.370520e+05	Jaden Springer	2023	PHI
## 696	1171626	2374561.4	-1.202935e+06	Jae Crowder	2015	TOT
## 697	8465050	11523539.8	-3.058490e+06	Jae Crowder	2018	TOT
## 698	8465050	10106289.9	-1.641240e+06	Jae Crowder	2018	CLE
## 699	8845913	12530188.5	-3.684276e+06	Jae Crowder	2019	UTA
## 700	10957067	11674714.7	-7.176477e+05	Jae Crowder	2021	PHO
## 701	7274995	2628303.1	4.646692e+06	Jae'Sean Tate	2023	HOU
## 702	3519537	3387133.6	1.324034e+05	Jakob Poeltl	2018	TOR

## 703	9677195	17264520.2	-7.587325e+06	Jakob Poeltl	2023	TOT
## 704	1687706	2609899.9	-9.221939e+05	Jalen Brunson	2020	DAL
## 705	1969219	4236185.2	-2.266966e+06	Jalen Brunson	2021	DAL
## 706	4246737	4119758.9	1.269781e+05	Jalen Duren	2023	DET
## 707	96220	451317.5	-3.550975e+05	Jalen Jones	2018	TOT
## 708	1796567	2043041.0	-2.464740e+05	Jalen Lecque	2021	IND
## 709	1070036	1021221.4	4.881463e+04	Jalen McDaniels	2020	CHO
## 710	1796567	2244774.1	-4.482071e+05	Jalen McDaniels	2021	CHO
## 711	22056457	17489191.9	4.567265e+06	Jalen Rose	2004	TOT
## 712	24619315	16868218.9	7.751096e+06	Jalen Rose	2006	TOT
## 713	24272630	4555821.2	1.971681e+07	Jalen Rose	2007	PHO
## 714	5006241	3625505.2	1.380736e+06	Jalen Smith	2022	TOT
## 715	7403713	5255692.3	2.148021e+06	Jalen Suggs	2022	ORL
## 716	699060	982174.3	-2.831143e+05	Jamaal Franklin	2014	MEM
## 717	2868009	5843212.7	-2.975204e+06	Jamaal Magloire	2004	NOH
## 718	8756502	4914651.7	3.841850e+06	Jamaal Tinsley	2010	MEM
## 719	524000	1554635.5	-1.030636e+06	Jamal Cain	2023	MIA
## 720	12047353	12485917.5	-4.385645e+05	Jamal Crawford	2009	NYK
## 721	6827268	16462547.5	-9.635280e+06	Jamal Crawford	2014	LAC
## 722	120458	286483.7	-1.660257e+05	Jamaree Bouyea	2023	TOT
## 723	3890018	2622850.4	1.267168e+06	Jamario Moon	2010	CLE
## 724	4199421	3364988.8	8.344322e+05	Jamario Moon	2011	TOT
## 725	1779121	2552140.0	-7.730190e+05	Jameer Nelson	2005	ORL
## 726	10543279	10534920.5	8.358527e+03	Jameer Nelson	2012	ORL
## 727	6080596	6841681.2	-7.610852e+05	Jameer Nelson	2015	DAL
## 728	6080596	6216645.2	-1.360492e+05	Jameer Nelson	2015	DEN
## 729	6025498	3867066.7	2.158431e+06	James Harden	2011	OKC
## 730	7738699	7696177.3	4.252171e+04	James Harden	2013	HOU
## 731	37014243	37190936.3	-1.766933e+05	James Harden	2019	HOU
## 732	48826198	44126683.6	4.699514e+06	James Harden	2021	TOT
## 733	49760158	39027069.1	1.073309e+07	James Harden	2022	TOT
## 734	49760158	25648987.6	2.411117e+07	James Harden	2022	PHI
## 735	3738782	3246387.4	4.923946e+05	James Johnson	2013	SAC
## 736	18283693	7349050.6	1.093464e+07	James Johnson	2020	MIA
## 737	2966564	7880392.1	-4.913828e+06	James Johnson	2022	BRK
## 738	1497106	5778878.1	-4.281772e+06	James Jones	2011	MIA
## 739	2027553	4962979.1	-2.935426e+06	James Jones	2012	MIA
## 740	1854249	4211939.8	-2.357691e+06	James Jones	2015	CLE
## 741	4694840	8102945.8	-3.408106e+06	James Posey	2008	BOS
## 742	980427	1511125.6	-5.306986e+05	James Singleton	2006	LAC
## 743	1457256	2451182.4	-9.939264e+05	James Singleton	2010	WAS
## 744	203451	690636.9	-4.871859e+05	James Southerland	2014	TOT
## 745	1230289	742049.9	4.882391e+05	James White	2007	SAS
## 746	96220	2333163.1	-2.236943e+06	James Young	2018	PHI
## 747	936219	1919137.9	-9.829189e+05	Jannero Pargo	2004	CHI
## 748	925978	4998011.8	-4.072034e+06	Jannero Pargo	2013	WAS
## 749	1700228	1356873.8	3.433542e+05	Jared Cunningham	2014	ATL
## 750	1700228	1202712.7	4.975153e+05	Jared Cunningham	2014	SAC
## 751	1328500	1946041.8	-6.175418e+05	Jared Cunningham	2016	CLE
## 752	3817900	3958718.9	-1.408189e+05	Jared Jeffries	2006	WAS
## 753	8435099	6594809.7	1.840289e+06	Jared Jeffries	2009	NYK
## 754	9147343	6602557.7	2.544785e+06	Jared Jeffries	2010	NYK
## 755	9147343	5326149.1	3.821194e+06	Jared Jeffries	2010	HOU
## 756	1573682	1763868.4	-1.901864e+05	Jarell Martin	2016	MEM

## 757	2925567	2747326.4	1.782406e+05	Jarell Martin	2019	ORL
## 758	4503871	9166825.4	-4.662954e+06	Jarred Vanderbilt	2023	LAL
## 759	2462918	4983860.3	-2.520942e+06	Jarrett Allen	2019	BRK
## 760	6439113	8386353.2	-1.947240e+06	Jarrett Jack	2011	TOT
## 761	6439113	7754731.9	-1.315619e+06	Jarrett Jack	2011	TOR
## 762	6439113	7162189.7	-7.230767e+05	Jarrett Jack	2011	NOH
## 763	164467	496289.0	-3.318220e+05	Jarrold Uthoff	2017	DAL
## 764	3441321	6427716.1	-2.986395e+06	Jarron Collins	2008	UTA
## 765	2412564	9097336.6	-6.684773e+06	Jason Collier	2005	ATL
## 766	2038732	2955783.7	-9.170517e+05	Jason Collins	2004	NJN
## 767	1671721	5215722.4	-3.544001e+06	Jason Collins	2010	ATL
## 768	570114	4000632.3	-3.430518e+06	Jason Collins	2014	BRK
## 769	2891151	5996393.7	-3.105243e+06	Jason Hart	2007	TOT
## 770	3463614	5992398.9	-2.528785e+06	Jason Hart	2009	LAC
## 771	7843283	5591864.0	2.251419e+06	Jason Kapono	2008	TOR
## 772	8788556	5284150.6	3.504405e+06	Jason Kapono	2010	PHI
## 773	1653356	3616089.4	-1.962733e+06	Jason Kapono	2012	LAL
## 774	27193647	20506781.1	6.686866e+06	Jason Kidd	2007	NJN
## 775	1524959	3738108.4	-2.213149e+06	Jason Maxiell	2008	DET
## 776	5684031	6176127.4	-4.920964e+05	Jason Richardson	2005	GSW
## 777	15037406	12716623.4	2.320783e+06	Jason Richardson	2007	GSW
## 778	17658764	14820277.8	2.838486e+06	Jason Richardson	2009	PHO
## 779	20219438	15534062.6	4.685375e+06	Jason Richardson	2011	TOT
## 780	5497735	7408307.5	-1.910573e+06	Jason Smith	2016	ORL
## 781	10457892	13584104.3	-3.126212e+06	Jason Terry	2006	DAL
## 782	13951020	12166374.4	1.784646e+06	Jason Terry	2010	DAL
## 783	6976685	6074329.7	9.023553e+05	Jason Terry	2015	HOU
## 784	1916775	4951381.5	-3.034607e+06	Jason Terry	2016	HOU
## 785	1964272	5642884.0	-3.678612e+06	Jason Terry	2017	MIL
## 786	2640713	3838471.7	-1.197759e+06	Jason Thompson	2009	SAC
## 787	8633655	6698242.1	1.935413e+06	Jason Thompson	2016	TOT
## 788	12405861	11569300.9	8.365601e+05	Jason Williams	2007	MIA
## 789	1848048	7658273.7	-5.810226e+06	Jason Williams	2010	ORL
## 790	1882036	1397811.4	4.842246e+05	Javaris Crittenton	2008	LAL
## 791	1926405	2036791.7	-1.103867e+05	Javaris Crittenton	2009	WAS
## 792	1070036	1765070.2	-6.950342e+05	Javonte Green	2020	BOS
## 793	1869587	3705907.7	-1.836321e+06	Javonte Green	2023	CHI
## 794	1015906	2168539.8	-1.152634e+06	Jawun Evans	2018	LAC
## 795	5791499	3762487.5	2.029012e+06	Jaxson Hayes	2020	NOP
## 796	6042080	3295060.3	2.747020e+06	Jaxson Hayes	2021	NOP
## 797	7005005	3770170.7	3.234834e+06	Jaxson Hayes	2023	NOP
## 798	519522	1404639.0	-8.851170e+05	Jay Scrubb	2022	LAC
## 799	7784070	5710100.7	2.073969e+06	Jaylen Brown	2020	BOS
## 800	30049723	29165201.9	8.845211e+05	Jaylen Brown	2022	BOS
## 801	30660910	30072352.1	5.885579e+05	Jaylen Brown	2023	BOS
## 802	215454	2732652.1	-2.517198e+06	Jaylen Hoard	2022	OKC
## 803	93534	771554.2	-6.780202e+05	Jaylen Morris	2019	MIL
## 804	1988006	5390367.0	-3.402361e+06	Jaylen Nowell	2023	MIN
## 805	2059383	3318280.0	-1.258897e+06	Jaylin Williams	2023	OKC
## 806	7031750	5164735.2	1.867015e+06	Jayson Tatum	2018	BOS
## 807	8113347	5364307.6	2.749039e+06	Jayson Tatum	2019	BOS
## 808	868688	2290211.2	-1.421523e+06	Jeff Adrien	2013	CHA
## 809	4055107	6182160.6	-2.127054e+06	Jeff Foster	2012	IND
## 810	4974923	3634812.0	1.340111e+06	Jeff Green	2010	OKC

## 811	6237524	4020615.2	2.216909e+06	Jeff Green	2011	BOS
## 812	11777156	11485594.2	2.915618e+05	Jeff Green	2015	TOT
## 813	11777156	11351034.7	4.261213e+05	Jeff Green	2015	MEM
## 814	18988768	10040094.0	8.948674e+06	Jeff Green	2017	ORL
## 815	2636819	10708878.3	-8.072059e+06	Jeff Green	2018	CLE
## 816	1001088	9320714.5	-8.319626e+06	Jeff Green	2020	HOU
## 817	5481000	8165888.2	-2.684888e+06	Jeff McInnis	2004	TOT
## 818	5413466	4947677.8	4.657882e+05	Jeff McInnis	2007	CHA
## 819	1785957	5889113.8	-4.103157e+06	Jeff McInnis	2008	CHA
## 820	2067291	2376715.5	-3.094245e+05	Jeff Teague	2011	ATL
## 821	10241005	15768241.0	-5.527236e+06	Jeff Teague	2015	ATL
## 822	10228345	17430616.7	-7.202272e+06	Jeff Teague	2016	ATL
## 823	739595	6346055.6	-5.606461e+06	Jeff Withey	2018	DAL
## 824	1080444	4181501.5	-3.101057e+06	Jerami Grant	2016	PHI
## 825	2059383	2445475.6	-3.860926e+05	Jeremiah Robinson-Earl	2023	OKC
## 826	1516076	4871626.6	-3.355551e+06	Jeremy Evans	2016	DAL
## 827	12427004	10438881.0	1.988123e+06	Jeremy Lamb	2021	IND
## 828	11791283	10132700.8	1.658582e+06	Jeremy Lamb	2022	IND
## 829	662954	2397819.2	-1.734865e+06	Jeremy Lin	2011	GSW
## 830	19072513	8758095.3	1.031442e+07	Jeremy Lin	2015	LAL
## 831	14536856	18286182.7	-3.749327e+06	Jeremy Lin	2017	BRK
## 832	1746859	2144477.7	-3.976187e+05	Jeremy Pargo	2013	CLE
## 833	1245795	1434184.1	-1.883891e+05	Jeremy Richardson	2008	TOT
## 834	5213864	5367749.6	-1.538856e+05	Jeremy Sochan	2023	SAS
## 835	2010330	1811775.7	1.985543e+05	Jerian Grant	2016	NYK
## 836	2125671	3919809.3	-1.794138e+06	Jermaine Jackson	2006	MIL
## 837	23797536	22731107.7	1.066428e+06	Jermaine O'Neal	2005	IND
## 838	27193647	22009557.8	5.184089e+06	Jermaine O'Neal	2007	IND
## 839	32557332	18855364.6	1.370197e+07	Jermaine O'Neal	2010	MIA
## 840	8069889	8313283.2	-2.433942e+05	Jermaine O'Neal	2011	BOS
## 841	1093068	1764526.8	-6.714588e+05	Jermaine Taylor	2011	TOT
## 842	8774014	8403095.3	3.709187e+05	Jerome James	2005	SEA
## 843	4249749	2318933.8	1.930815e+06	Jerome Robinson	2020	TOT
## 844	4249749	2088370.5	2.161379e+06	Jerome Robinson	2020	LAC
## 845	4423445	2079550.9	2.343894e+06	Jerome Robinson	2021	WAS
## 846	9944693	9324847.0	6.198460e+05	Jerome Williams	2004	TOR
## 847	1827746	6524067.3	-4.696321e+06	Jerry Stackhouse	2012	ATL
## 848	3209198	2617478.4	5.917196e+05	Jerryd Bayless	2011	NOH
## 849	4112257	4794687.6	-6.824306e+05	Jerryd Bayless	2012	TOR
## 850	11930116	9682964.3	2.247152e+06	Jerryd Bayless	2017	PHI
## 851	4612242	2766637.3	1.845605e+06	Jevon Carter	2022	TOT
## 852	4612242	2605235.0	2.007007e+06	Jevon Carter	2022	BRK
## 853	3892270	7991009.1	-4.098739e+06	Jim Jackson	2005	HOU
## 854	3892270	7067142.6	-3.174873e+06	Jim Jackson	2005	PHO
## 855	4141325	7678655.6	-3.537331e+06	Jim Jackson	2006	TOT
## 856	3199284	2667888.7	5.313953e+05	Jimmer Fredette	2013	SAC
## 857	3676138	3411905.8	2.642322e+05	Jimmer Fredette	2014	TOT
## 858	24024298	23817354.7	2.069433e+05	Jimmy Butler	2019	TOT
## 859	24024298	23137035.3	8.872627e+05	Jimmy Butler	2019	PHI
## 860	39001178	31007057.8	7.994120e+06	Jimmy Butler	2020	MIA
## 861	24532283	12345691.1	1.218659e+07	Joakim Noah	2019	MEM
## 862	3350837	1935489.7	1.415347e+06	Joe Alexander	2009	MIL
## 863	1241145	2637538.0	-1.396393e+06	Joe Harris	2017	BRK
## 864	1898631	4344136.4	-2.445505e+06	Joe Harris	2018	BRK

## 865	2658427	4322228.7	-1.663802e+06	Joe Ingles	2017	UTA
## 866	12265615	16497129.7	-4.231515e+06	Joe Ingles	2021	UTA
## 867	14639567	7359223.2	7.280344e+06	Joe Ingles	2022	UTA
## 868	13925096	11521201.0	2.403895e+06	Joe Johnson	2017	UTA
## 869	9488455	10302016.3	-8.135613e+05	Joe Smith	2005	MIL
## 870	7614838	12614355.3	-4.999517e+06	Joe Smith	2008	TOT
## 871	759550	1232471.1	-4.729211e+05	Joel Bolomboy	2017	UTA
## 872	7598318	9366213.5	-1.767895e+06	Joel Embiid	2018	PHI
## 873	30835818	18816668.9	1.201915e+07	Joel Embiid	2019	PHI
## 874	34963685	31860412.8	3.103272e+06	Joel Embiid	2021	PHI
## 875	2244242	2227616.8	1.662522e+04	Joey Graham	2007	TOR
## 876	2291784	1375745.8	9.160382e+05	Joffrey Lauvergne	2015	DEN
## 877	2185949	2642216.7	-4.562677e+05	Joffrey Lauvergne	2016	DEN
## 878	2164363	2197061.9	-3.269886e+04	Joffrey Lauvergne	2017	OKC
## 879	4549373	4557174.8	-7.801803e+03	Johan Petro	2011	NJN
## 880	517977	1373179.8	-8.552028e+05	John Butler	2023	POR
## 881	4896597	7324452.7	-2.427856e+06	John Collins	2021	ATL
## 882	3763034	4297549.0	-5.345150e+05	John Henson	2016	MIL
## 883	15529782	11447821.3	4.081961e+06	John Henson	2017	MIL
## 884	12807226	9235408.2	3.571818e+06	John Henson	2019	MIL
## 885	11592905	8662157.7	2.930747e+06	John Henson	2020	DET
## 886	6616459	7747088.9	-1.130630e+06	John Salmons	2007	SAC
## 887	7717796	8805508.8	-1.087713e+06	John Salmons	2010	CHI
## 888	11198458	14208075.3	-3.009617e+06	John Salmons	2011	MIL
## 889	10742993	6962619.9	3.780373e+06	John Salmons	2013	SAC
## 890	7201000	4594921.7	2.606078e+06	John Wall	2011	WAS
## 891	7475023	5267885.4	2.207138e+06	John Wall	2012	WAS
## 892	9747541	5684422.3	4.063119e+06	John Wall	2014	WAS
## 893	93534	2185123.4	-2.091589e+06	Johnathan Motley	2019	LAC
## 894	1080444	1979412.7	-8.989687e+05	Johnny O'Bryant	2016	MIL
## 895	496453	1501732.6	-1.005280e+06	Johnny O'Bryant	2017	TOT
## 896	4982727	6328930.6	-1.346204e+06	Jon Barry	2004	DEN
## 897	1351702	2131215.9	-7.795139e+05	Jon Brockman	2012	MIL
## 898	1013398	1177398.8	-1.640008e+05	Jon Leuer	2013	TOT
## 899	1323292	9598853.3	-8.275561e+06	Jon Leuer	2016	PHO
## 900	5879944	2916506.5	2.963438e+06	Jonas Jerebko	2014	DET
## 901	2621970	8829602.5	-6.207633e+06	Jonas Jerebko	2019	GSW
## 902	849868	1439771.0	-5.899030e+05	Jonathan Gibson	2017	DAL
## 903	6016576	3898907.8	2.117668e+06	Jonathan Isaac	2019	ORL
## 904	6916437	4254975.5	2.661461e+06	Jonathan Isaac	2020	ORL
## 905	7847101	5220448.5	2.626653e+06	Jonathon Simmons	2018	ORL
## 906	4200201	4462944.0	-2.627430e+05	Jonny Flynn	2010	MIN
## 907	4615685	3062191.2	1.553494e+06	Jonny Flynn	2012	TOT
## 908	1720642	2027862.2	-3.072202e+05	Jordan Adams	2015	MEM
## 909	1668779	1997576.4	-3.287974e+05	Jordan Bell	2019	GSW
## 910	15823973	3895998.7	1.192797e+07	Jordan Clarkson	2017	LAL
## 911	14401922	6204451.5	8.197471e+06	Jordan Clarkson	2018	TOT
## 912	13947403	12590911.2	1.356492e+06	Jordan Clarkson	2022	UTA
## 913	1459047	1245509.8	2.135372e+05	Jordan Crawford	2011	ATL
## 914	1593739	2248048.5	-6.543095e+05	Jordan Crawford	2013	BOS
## 915	1505919	2411062.4	-9.051434e+05	Jordan Farmar	2009	LAL
## 916	1612829	1971746.4	-3.589174e+05	Jordan Hamilton	2014	HOU
## 917	4573289	10223559.9	-5.650271e+06	Jordan Hill	2014	LAL
## 918	221150	1040807.1	-8.196571e+05	Jordan McRae	2016	TOT

## 919	1107217	1495824.3	-3.886073e+05	Jordan McRae	2017	CLE
## 920	2427252	5620847.8	-3.193596e+06	Jordan Poole	2022	GSW
## 921	59715	526182.9	-4.664679e+05	Jordan Schakel	2022	WAS
## 922	4005436	3070980.9	9.344551e+05	Josh Childress	2005	ATL
## 923	4199680	3329383.6	8.702964e+05	Josh Childress	2006	ATL
## 924	9098747	5133165.4	3.965582e+06	Josh Childress	2011	PHO
## 925	9160869	5882305.8	3.278563e+06	Josh Childress	2013	BRK
## 926	302759	1439568.4	-1.136809e+06	Josh Davis	2006	TOT
## 927	6724400	6008584.5	7.158155e+05	Josh Giddey	2022	OKC
## 928	3190397	2734783.6	4.556134e+05	Josh Green	2023	DAL
## 929	531538	2144270.8	-1.612733e+06	Josh Hall	2021	OKC
## 930	13475752	14992339.8	-1.516588e+06	Josh Hart	2022	TOT
## 931	13475752	12550677.3	9.250747e+05	Josh Hart	2022	NOP
## 932	13475752	16929994.9	-3.454243e+06	Josh Hart	2022	POR
## 933	1389058	3198755.9	-1.809698e+06	Josh Howard	2005	DAL
## 934	13179527	15899813.4	-2.720286e+06	Josh Howard	2008	DAL
## 935	5620904	4725374.3	8.955297e+05	Josh Jackson	2022	SAC
## 936	4168228	5968541.0	-1.800313e+06	Josh McRoberts	2013	TOT
## 937	3014461	3399555.4	-3.850944e+05	Josh Okogie	2020	MIN
## 938	3137570	2783898.7	3.536713e+05	Josh Okogie	2021	MIN
## 939	1356712	4342593.2	-2.985881e+06	Josh Powell	2010	LAL
## 940	94778	631834.4	-5.370564e+05	Josh Reaves	2020	DAL
## 941	1832711	4077137.2	-2.244426e+06	Josh Richardson	2018	MIA
## 942	12050527	12900651.2	-8.501242e+05	Josh Richardson	2020	PHI
## 943	13043773	9058052.7	3.985720e+06	Josh Richardson	2022	TOT
## 944	13043773	7086411.5	5.957361e+06	Josh Richardson	2022	BOS
## 945	16761111	19341925.8	-2.580815e+06	Josh Smith	2012	ATL
## 946	2142028	3284810.3	-1.142782e+06	Jrue Holiday	2010	PHI
## 947	14081382	12839484.7	1.241897e+06	Jrue Holiday	2015	NOP
## 948	31994583	21659659.4	1.033492e+07	Jrue Holiday	2018	NOP
## 949	35004763	31684669.9	3.320093e+06	Jrue Holiday	2022	MIL
## 950	2168413	2658448.2	-4.900352e+05	Juan Dixon	2005	WAS
## 951	3734199	4533809.2	-7.996102e+05	Juan Dixon	2008	TOR
## 952	3734199	4788330.3	-1.054131e+06	Juan Dixon	2008	DET
## 953	2196618	3095663.8	-8.990458e+05	Juan Toscano-Anderson	2023	LAL
## 954	1502187	5316043.5	-3.813856e+06	Jumaine Jones	2007	PHO
## 955	1117895	1694433.6	-5.765386e+05	Junior Harrington	2005	NOH
## 956	1967305	2611686.9	-6.443819e+05	Justin Anderson	2018	PHI
## 957	500654	5331105.6	-4.830452e+06	Justin Anderson	2022	TOT
## 958	500654	5000149.3	-4.499495e+06	Justin Anderson	2022	IND
## 959	1045199	1501042.8	-4.558438e+05	Justin Hamilton	2015	TOT
## 960	1045199	1152423.6	-1.072246e+05	Justin Hamilton	2015	MIA
## 961	101340	625499.8	-5.241598e+05	Justin Holiday	2013	PHI
## 962	1285787	3702368.0	-2.416581e+06	Justin Holiday	2017	NYK
## 963	5448612	10403974.4	-4.955362e+06	Justin Holiday	2019	MEM
## 964	1796567	1305584.5	4.909825e+05	Justin James	2021	SAC
## 965	1006699	2002252.0	-9.955530e+05	Justin Reed	2006	TOT
## 966	9255861	11998702.8	-2.742842e+06	Juwan Howard	2006	HOU
## 967	1796567	1438422.1	3.581449e+05	Juwan Morgan	2021	UTA
## 968	1796567	2712515.3	-9.159483e+05	KZ Okpala	2021	MIA
## 969	1958610	2942120.3	-9.835103e+05	KZ Okpala	2023	SAC
## 970	778354	1259798.2	-4.814442e+05	Kaniel Dickens	2005	NJN
## 971	1888555	2634409.4	-7.458544e+05	Kareem Rush	2005	TOT
## 972	9492010	10806990.1	-1.314980e+06	Karl-Anthony Towns	2019	MIN

## 973	32500982	30237893.3	2.263089e+06	Karl-Anthony Towns	2020	MIN
## 974	23502224	20242843.5	3.259380e+06	Kawhi Leonard	2018	SAS
## 975	39001178	36555926.2	2.445252e+06	Kawhi Leonard	2020	LAC
## 976	43754169	38284972.6	5.469196e+06	Kawhi Leonard	2023	LAC
## 977	2919280	2301108.0	6.181720e+05	Kedrick Brown	2004	BOS
## 978	8246224	4138088.9	4.108135e+06	Keegan Murray	2023	SAC
## 979	1015214	1399765.3	-3.845513e+05	Keita Bates-Diop	2019	MIN
## 980	1687706	2173256.8	-4.855508e+05	Keita Bates-Diop	2020	TOT
## 981	1687706	481852.1	1.205854e+06	Keita Bates-Diop	2020	DEN
## 982	531538	1666092.9	-1.134555e+06	Keita Bates-Diop	2021	SAS
## 983	3576558	5846756.7	-2.270199e+06	Keith Bogans	2009	TOT
## 984	2030050	3005084.7	-9.750347e+05	Keith McLeod	2007	TOT
## 985	24619315	8808805.0	1.581051e+07	Keith Van Horn	2006	DAL
## 986	4430377	4476992.4	-4.661545e+04	Kelenna Azubuike	2010	GSW
## 987	2657233	2681001.2	-2.376818e+04	Kelly Olynyk	2015	BOS
## 988	3540667	4253358.8	-7.126918e+05	Kemba Walker	2014	CHA
## 989	1171626	1998630.7	-8.270047e+05	Kendall Marshall	2015	MIL
## 990	6561811	10720734.1	-4.158923e+06	Kendrick Perkins	2008	BOS
## 991	10371417	9162605.6	1.208811e+06	Kendrick Perkins	2013	OKC
## 992	11077079	8655158.1	2.421921e+06	Kendrick Perkins	2014	OKC
## 993	1687706	2685601.8	-9.978958e+05	Kenrich Williams	2020	NOP
## 994	2059383	8604295.4	-6.544912e+06	Kenrich Williams	2023	OKC
## 995	995925	2454883.6	-1.458959e+06	Kent Bazemore	2014	TOT
## 996	2560251	1953437.2	6.068138e+05	Kent Bazemore	2015	ATL
## 997	21903287	15633929.8	6.269357e+06	Kent Bazemore	2019	ATL
## 998	2745828	11529453.6	-8.783626e+06	Kent Bazemore	2021	GSW
## 999	3466658	3029550.0	4.371080e+05	Kentavious Caldwell-Pope	2014	DET
## 1000	14288711	11441856.6	2.846854e+06	Kentavious Caldwell-Pope	2021	LAL
## 1001	23160447	12764970.1	1.039548e+07	Kenyon Martin	2011	DEN
## 1002	625531	1520102.5	-8.945715e+05	Kevin Burleson	2006	CHA
## 1003	6785436	10380765.5	-3.595329e+06	Kevin Durant	2010	OKC
## 1004	25599330	22952925.1	2.646405e+06	Kevin Durant	2015	OKC
## 1005	33597587	29163676.0	4.433911e+06	Kevin Durant	2017	GSW
## 1006	47469914	42591347.2	4.878567e+06	Kevin Durant	2021	BRK
## 1007	47186357	43159306.6	4.027050e+06	Kevin Durant	2022	BRK
## 1008	26316377	21885696.6	4.430680e+06	Kevin Garnett	2011	BOS
## 1009	15361508	8484445.6	6.877062e+06	Kevin Garnett	2015	MIN
## 1010	4776432	5370215.3	-5.937833e+05	Kevin Huerter	2022	ATL
## 1011	14939724	16672111.2	-1.732387e+06	Kevin Huerter	2023	SAC
## 1012	5430814	2563457.5	2.867356e+06	Kevin Knox	2021	NYK
## 1013	6564912	4279068.2	2.285844e+06	Kevin Knox	2022	TOT
## 1014	3089075	5140230.5	-2.051155e+06	Kevin Knox	2023	DET
## 1015	6230944	7769771.5	-1.538828e+06	Kevin Love	2012	MIN
## 1016	19199855	21173615.8	-1.973761e+06	Kevin Love	2014	MIN
## 1017	20122376	14947162.9	5.175213e+06	Kevin Love	2015	CLE
## 1018	28202668	26503817.0	1.698851e+06	Kevin Love	2018	CLE
## 1019	31464258	12673424.3	1.879083e+07	Kevin Love	2023	CLE
## 1020	1470546	3397242.9	-1.926697e+06	Kevin Martin	2006	SAC
## 1021	14400381	13741241.2	6.591398e+05	Kevin Martin	2010	TOT
## 1022	15571396	13833045.3	1.738351e+06	Kevin Martin	2012	HOU
## 1023	9464382	9804655.5	-3.402735e+05	Kevin Martin	2016	TOT
## 1024	1760077	5249990.0	-3.489913e+06	Kevin Ollie	2009	MIN
## 1025	1762154	1069331.3	6.928227e+05	Kevin Pangos	2022	CLE
## 1026	1777172	8320158.2	-6.542986e+06	Kevin Willis	2004	SAS

## 1027	2090889	6971635.2	-4.880746e+06	Kevin Willis	2005	ATL
## 1028	1497378	2359116.2	-8.617382e+05	Kevon Looney	2017	GSW
## 1029	4862919	6311600.5	-1.448682e+06	Keyon Dooling	2006	ORL
## 1030	3564181	4109433.0	-5.452520e+05	Khem Birch	2021	TOT
## 1031	39865767	33178349.9	6.687417e+06	Khris Middleton	2022	MIL
## 1032	629693	877812.4	-2.481194e+05	Kim English	2013	DET
## 1033	3779427	4062386.9	-2.829599e+05	Kirk Hinrich	2005	CHI
## 1034	3943482	4242729.2	-2.992472e+05	Kirk Hinrich	2006	CHI
## 1035	16474409	8367468.1	8.106941e+06	Kirk Hinrich	2008	CHI
## 1036	12598265	7664440.5	4.933824e+06	Kirk Hinrich	2011	TOT
## 1037	2874422	3466550.4	-5.921284e+05	Klay Thompson	2012	GSW
## 1038	3937513	7655909.2	-3.718396e+06	Klay Thompson	2015	GSW
## 1039	22203746	20401584.5	1.802162e+06	Klay Thompson	2018	GSW
## 1040	42651564	28374098.7	1.427747e+07	Klay Thompson	2022	GSW
## 1041	3988735	10296131.9	-6.307397e+06	Kosta Koufos	2013	DEN
## 1042	15679851	10714357.3	4.965494e+06	Kris Humphries	2014	BOS
## 1043	5676731	8580532.8	-2.903802e+06	Kris Humphries	2016	TOT
## 1044	11848670	6950478.3	4.898192e+06	Kurt Thomas	2008	SAS
## 1045	7062318	4166579.2	2.895739e+06	Kwame Brown	2004	WAS
## 1046	1509075	2356992.2	-8.479172e+05	Kyle Anderson	2017	SAS
## 1047	11249516	19237108.4	-7.987592e+06	Kyle Anderson	2021	MEM
## 1048	741989	1411241.4	-6.692524e+05	Kyle Collinsworth	2018	DAL
## 1049	636603	1479035.6	-8.424326e+05	Kyle Guy	2021	SAC
## 1050	609439	2390138.4	-1.780699e+06	Kyle Korver	2004	PHI
## 1051	6443324	6717891.5	-2.745675e+05	Kyle Korver	2008	UTA
## 1052	6911636	6890131.2	2.150477e+04	Kyle Korver	2009	UTA
## 1053	6632697	7116772.9	-4.840759e+05	Kyle Korver	2017	CLE
## 1054	1773145	4351536.4	-2.578391e+06	Kyle Kuzma	2018	LAL
## 1055	2046063	5486787.5	-3.440725e+06	Kyle Kuzma	2019	LAL
## 1056	2352077	3698294.3	-1.346217e+06	Kyle Kuzma	2020	LAL
## 1057	14598731	20450532.7	-5.851802e+06	Kyle Kuzma	2022	WAS
## 1058	15342518	21506407.0	-6.163889e+06	Kyle Lowry	2016	TOR
## 1059	29174601	17511590.7	1.166301e+07	Kyle Lowry	2023	MIA
## 1060	6123877	4640522.3	1.483355e+06	Kyle Singler	2017	OKC
## 1061	5812460	5881198.7	-6.873868e+04	Kyle Singler	2018	OKC
## 1062	1124492	1628183.2	-5.036912e+05	Kyle Weaver	2009	OKC
## 1063	7730009	6180327.7	1.549681e+06	Kyrie Irving	2014	CLE
## 1064	20977698	19149343.1	1.828355e+06	Kyrie Irving	2016	CLE
## 1065	6056045	3193541.2	2.862504e+06	LaMarcus Aldridge	2007	POR
## 1066	6457883	4350660.8	2.107222e+06	LaMarcus Aldridge	2009	POR
## 1067	8267812	4948984.1	3.318828e+06	LaMarcus Aldridge	2010	POR
## 1068	18423825	21345612.1	-2.921787e+06	LaMarcus Aldridge	2014	POR
## 1069	26731225	30395902.6	-3.664678e+06	LaMarcus Aldridge	2018	SAS
## 1070	27057829	27297089.2	-2.392602e+05	LaMarcus Aldridge	2019	SAS
## 1071	20863567	18454775.5	2.408791e+06	LaMarcus Aldridge	2021	TOT
## 1072	20863567	17472510.8	3.391056e+06	LaMarcus Aldridge	2021	SAS
## 1073	2966564	13228369.8	-1.026181e+07	LaMarcus Aldridge	2022	BRK
## 1074	9244096	7287419.7	1.956676e+06	LaMelo Ball	2022	CHO
## 1075	17985482	14257206.0	3.728276e+06	Lamar Odom	2006	LAL
## 1076	19728373	12787237.8	6.941135e+06	Lamar Odom	2009	LAL
## 1077	1183524	1689958.7	-5.064347e+05	Lamar Stevens	2021	CLE
## 1078	1813414	5922809.9	-4.109396e+06	Lance Stephenson	2022	ATL
## 1079	8620492	8567250.4	5.324165e+04	Lance Thomas	2019	NYK
## 1080	1030260	2735965.2	-1.705705e+06	Landry Fields	2012	NYK

## 1081	6647892	1922882.4	4.725010e+06	Landry Fields	2013	TOR
## 1082	378219	2290419.7	-1.912201e+06	Langston Galloway	2015	NYK
## 1083	6582773	3349731.8	3.233041e+06	Langston Galloway	2017	TOT
## 1084	8475619	6590030.1	1.885589e+06	Langston Galloway	2019	DET
## 1085	1169058	2706028.8	-1.536971e+06	Laron Profit	2006	LAL
## 1086	17572826	13236069.6	4.336756e+06	Larry Hughes	2008	CLE
## 1087	17572826	13778799.4	3.794027e+06	Larry Hughes	2008	CHI
## 1088	19316088	12514530.2	6.801558e+06	Larry Hughes	2010	TOT
## 1089	77994	786727.7	-7.087337e+05	Larry Owens	2011	SAS
## 1090	2648201	4904745.9	-2.256545e+06	Larry Sanders	2013	MIL
## 1091	4760126	5115882.8	-3.557568e+05	Lauri Markkanen	2018	CHI
## 1092	3988735	2686449.5	1.302286e+06	Lavoy Allen	2013	PHI
## 1093	625531	998567.8	-3.730368e+05	Lawrence Roberts	2006	MEM
## 1094	998798	1961164.0	-9.623660e+05	Lawrence Roberts	2007	MEM
## 1095	1429147	1135696.5	2.934505e+05	Lazar Hayward	2011	MIN
## 1096	6675060	5267180.4	1.407880e+06	LeBron James	2004	CLE
## 1097	46244900	43542484.0	2.702416e+06	LeBron James	2022	LAL
## 1098	2525882	5569350.6	-3.043469e+06	Leandro Barbosa	2007	PHO
## 1099	8200595	9492692.2	-1.292097e+06	Leandro Barbosa	2008	PHO
## 1100	849794	5904523.6	-5.054730e+06	Leandro Barbosa	2014	PHO
## 1101	1282016	6283731.7	-5.001716e+06	Leon Powe	2011	MEM
## 1102	2573402	5028375.7	-2.454974e+06	Lindsey Hunter	2005	DET
## 1103	415818	3522304.6	-3.106487e+06	Linton Johnson	2008	TOT
## 1104	1057465	1636772.5	-5.793075e+05	Lonny Baxter	2004	TOR
## 1105	1057465	1371344.1	-3.138791e+05	Lonny Baxter	2004	WAS
## 1106	20892639	12901076.4	7.991563e+06	Lonzo Ball	2022	CHI
## 1107	10962000	10562871.4	3.991286e+05	Lorenzen Wright	2004	MEM
## 1108	968642	6464895.3	-5.496253e+06	Lorenzo Brown	2019	TOR
## 1109	5995431	4420283.3	1.575148e+06	Luc Mbah a Moute	2014	SAC
## 1110	4152272	6589397.6	-2.437126e+06	Lucious Harris	2004	NJN
## 1111	185401	2974833.6	-2.789433e+06	Luguentz Dort	2020	OKC
## 1112	2001846	5043569.9	-3.041724e+06	Luguentz Dort	2022	OKC
## 1113	4261380	4497699.3	-2.363193e+05	Luis Scola	2008	HOU
## 1114	11613548	11321458.3	2.920897e+05	Luis Scola	2012	HOU
## 1115	2515934	2217064.1	2.988699e+05	Luke Babbitt	2013	POR
## 1116	1255910	4827865.8	-3.571956e+06	Luke Babbitt	2015	NOP
## 1117	3067027	1371961.4	1.695066e+06	Luke Jackson	2006	CLE
## 1118	3205946	1990823.9	1.215122e+06	Luke Jackson	2007	TOR
## 1119	409173	2185210.6	-1.776038e+06	Luke Jackson	2008	MIA
## 1120	3436880	2722113.5	7.147665e+05	Luke Kennard	2018	DET
## 1121	4558785	3203489.9	1.355295e+06	Luke Kennard	2020	DET
## 1122	14989221	9277049.0	5.712172e+06	Luke Kennard	2022	LAC
## 1123	14153581	9352056.7	4.801524e+06	Luke Kennard	2023	TOT
## 1124	14153581	9509412.3	4.644169e+06	Luke Kennard	2023	MEM
## 1125	96220	1671393.5	-1.575173e+06	Luke Kornet	2018	NYK
## 1126	912267	3154649.2	-2.242382e+06	Luke Kornet	2022	TOT
## 1127	2365798	1653689.6	7.121084e+05	Luke Ridnour	2004	SEA
## 1128	997267	1410580.7	-4.133137e+05	Luke Walton	2005	LAL
## 1129	6846432	6009361.0	8.370710e+05	Luke Walton	2010	LAL
## 1130	14669507	14138386.4	5.311206e+05	Luol Deng	2010	CHI
## 1131	18700999	15625689.2	3.075310e+06	Luol Deng	2014	CHI
## 1132	12435731	12728110.3	-2.923793e+05	Luol Deng	2015	MIA
## 1133	1643047	2381456.4	-7.384094e+05	Luther Head	2008	HOU
## 1134	2736280	2897682.2	-1.614022e+05	Luther Head	2009	HOU

## 1135	2736280	2282966.5	4.533135e+05	Luther Head	2009	MIA
## 1136	998798	1665829.2	-6.670312e+05	Lynn Greer	2007	MIL
## 1137	2308582	2468955.4	-1.603734e+05	Malachi Flynn	2021	TOR
## 1138	1874037	1617910.9	2.561261e+05	Malachi Richardson	2018	SAC
## 1139	1870631	6856881.0	-4.986250e+06	Malcolm Brogdon	2019	MIL
## 1140	23823333	9755107.7	1.406823e+07	Malcolm Brogdon	2020	IND
## 1141	3164794	2634858.9	5.299351e+05	Malcolm Delaney	2017	ATL
## 1142	3113929	2457279.0	6.566500e+05	Malcolm Delaney	2018	ATL
## 1143	364263	1043679.3	-6.794163e+05	Malcolm Hill	2022	TOT
## 1144	364263	787292.9	-4.230299e+05	Malcolm Hill	2022	ATL
## 1145	364263	725694.7	-3.614317e+05	Malcolm Hill	2022	CHI
## 1146	675851	961264.4	-2.854134e+05	Malcolm Lee	2012	MIN
## 1147	16019980	13689451.0	2.330529e+06	Malik Beasley	2023	LAL
## 1148	3617737	3357158.9	2.605781e+05	Malik Monk	2018	CHO
## 1149	4174218	3441083.8	7.331342e+05	Malik Monk	2019	CHO
## 1150	8785755	8158841.0	6.269140e+05	Malik Rose	2005	NYK
## 1151	10663442	8223888.0	2.439554e+06	Malik Rose	2009	OKC
## 1152	166181	1815639.3	-1.649458e+06	Manny Harris	2012	CLE
## 1153	1668022	1667398.0	6.240077e+02	MarShon Brooks	2014	BOS
## 1154	25173237	17254783.7	7.918453e+06	Marc Gasol	2016	MEM
## 1155	3035447	17553834.9	-1.451839e+07	Marc Gasol	2021	LAL
## 1156	7137511	7583614.9	-4.461039e+05	Marc Jackson	2006	TOT
## 1157	671354	2092229.6	-1.420876e+06	Marcelo Huertas	2016	LAL
## 1158	3593299	7996387.1	-4.403088e+06	Marco Belinelli	2014	SAS
## 1159	2490367	2379354.6	1.110124e+05	Marcus Banks	2004	BOS
## 1160	2704850	2514717.9	1.901321e+05	Marcus Banks	2006	MIN
## 1161	5808081	3930504.5	1.877576e+06	Marcus Banks	2008	PHO
## 1162	10821324	11492735.9	-6.714119e+05	Marcus Camby	2010	POR
## 1163	16447500	12857977.0	3.589523e+06	Marcus Camby	2011	POR
## 1164	1183700	5412205.9	-4.228506e+06	Marcus Fizer	2005	MIL
## 1165	17615244	12807989.3	4.807255e+06	Marcus Morris	2021	LAC
## 1166	4530568	3419783.8	1.110784e+06	Marcus Smart	2017	BOS
## 1167	13513426	11863018.6	1.650407e+06	Marcus Smart	2019	BOS
## 1168	15322411	14639723.7	6.826873e+05	Marcus Smart	2021	BOS
## 1169	1066926	3165043.9	-2.098118e+06	Marcus Thornton	2011	TOT
## 1170	1066926	2513948.0	-1.447022e+06	Marcus Thornton	2011	NOH
## 1171	10668832	7298984.2	3.369848e+06	Marcus Thornton	2014	BRK
## 1172	11133893	7780157.3	3.353736e+06	Marcus Thornton	2015	TOT
## 1173	1837127	7925968.6	-6.088842e+06	Marcus Thornton	2016	WAS
## 1174	1006705	1186935.6	-1.802306e+05	Marcus Vinicius	2008	NOH
## 1175	1650926	3141710.4	-1.490784e+06	Marcus Williams	2007	NJN
## 1176	1747151	2250193.5	-5.030425e+05	Marcus Williams	2008	NJN
## 1177	1760419	1458822.0	3.015970e+05	Marcus Williams	2009	GSW
## 1178	2642018	2123002.7	5.190153e+05	Mardy Collins	2010	LAC
## 1179	94778	591839.6	-4.970616e+05	Marial Shayok	2020	PHI
## 1180	976058	2842774.5	-1.866716e+06	Mario Chalmers	2009	MIA
## 1181	5497735	7910471.6	-2.412737e+06	Mario Chalmers	2016	MEM
## 1182	2623680	10103231.4	-7.479551e+06	Mario Chalmers	2018	MEM
## 1183	4949536	3042383.2	1.907153e+06	Mario Hezonja	2017	ORL
## 1184	625534	1398639.3	-7.731053e+05	Mario West	2008	ATL
## 1185	992117	2431017.4	-1.438900e+06	Mario West	2009	ATL
## 1186	11871546	6760345.6	5.111200e+06	Mark Blount	2009	MIA
## 1187	1102310	3465673.8	-2.363364e+06	Mark Madsen	2004	MIN
## 1188	649453	1511151.4	-8.616984e+05	Markel Brown	2015	BRK

## 1189	8751685	2654433.4	6.097252e+06	Markelle Fultz	2018	PHI
## 1190	18529159	16391908.4	2.137251e+06	Markelle Fultz	2022	ORL
## 1191	4037337	5231536.3	-1.194199e+06	Markieff Morris	2015	PHO
## 1192	10228345	11319811.2	-1.091466e+06	Markieff Morris	2016	PHO
## 1193	2150954	3116340.7	-9.653867e+05	Marreese Speights	2009	PHI
## 1194	4878281	7998125.8	-3.119845e+06	Marreese Speights	2016	GSW
## 1195	6144814	8474320.4	-2.329506e+06	Martell Webster	2010	POR
## 1196	11018881	7299038.9	3.719842e+06	Marvin Williams	2013	UTA
## 1197	8949802	15431918.6	-6.482117e+06	Marvin Williams	2016	CHO
## 1198	502457	1188967.4	-6.865104e+05	Mason Jones	2021	TOT
## 1199	1696873	3180409.0	-1.483536e+06	Mason Plumlee	2014	BRK
## 1200	1809803	5219194.7	-3.409392e+06	Mason Plumlee	2016	POR
## 1201	2947727	3871685.0	-9.239580e+05	Mason Plumlee	2017	DEN
## 1202	3075782	2900456.0	1.753260e+05	Matisse Thybulle	2020	PHI
## 1203	1072762	1442782.8	-3.700208e+05	Matt Barnes	2006	PHI
## 1204	4529239	10563231.2	-6.033992e+06	Matt Barnes	2016	MEM
## 1205	8239037	9567053.4	-1.328016e+06	Matt Barnes	2017	TOT
## 1206	4480893	6039613.8	-1.558721e+06	Matt Bonner	2012	SAS
## 1207	579710	741255.9	-1.615459e+05	Matt Carroll	2004	TOT
## 1208	7041566	5530722.4	1.510844e+06	Matt Carroll	2009	CHA
## 1209	6648395	4758231.8	1.890163e+06	Matt Carroll	2010	DAL
## 1210	5271639	4851042.4	4.205966e+05	Matt Carroll	2012	CHA
## 1211	2573358	7352907.1	-4.779549e+06	Matthew Dellavedova	2021	CLE
## 1212	1453546	1587294.3	-1.337483e+05	Maurice Ager	2009	NJN
## 1213	1117895	2144198.9	-1.026304e+06	Maurice Evans	2005	SAC
## 1214	3499518	4969330.0	-1.469812e+06	Maurice Evans	2011	TOT
## 1215	2705222	1668256.7	1.036965e+06	Melvin Ely	2004	LAC
## 1216	1687706	1117735.4	5.699706e+05	Melvin Frazier	2020	ORL
## 1217	11317628	14859329.2	-3.541701e+06	Metta World Peace	2007	SAC
## 1218	1916775	5792031.7	-3.875257e+06	Metta World Peace	2016	LAL
## 1219	13444120	10539250.9	2.904869e+06	Meyers Leonard	2020	MIA
## 1220	2878748	1794525.4	1.084223e+06	Mfiondu Kabengele	2021	TOT
## 1221	2878748	1510526.5	1.368221e+06	Mfiondu Kabengele	2021	CLE
## 1222	1158104	2628399.0	-1.470295e+06	Michael Bradley	2005	TOT
## 1223	23497373	14046888.2	9.450485e+06	Michael Finley	2005	DAL
## 1224	3536380	5149467.7	-1.613088e+06	Michael Finley	2010	SAS
## 1225	15740437	7133343.3	8.607094e+06	Michael Kidd-Gilchrist	2019	CHO
## 1226	708889	6060989.6	-5.352101e+06	Michael Kidd-Gilchrist	2020	TOT
## 1227	708889	6253517.4	-5.544628e+06	Michael Kidd-Gilchrist	2020	DAL
## 1228	21262971	16996042.3	4.266929e+06	Michael Redd	2008	MIL
## 1229	22003153	15613002.2	6.390151e+06	Michael Redd	2009	MIL
## 1230	1198314	5815289.4	-4.616975e+06	Michael Ruffin	2005	WAS
## 1231	20892681	16796431.7	4.096249e+06	Mike Bibby	2009	ATL
## 1232	1827746	5094987.2	-3.267241e+06	Mike Bibby	2012	NYK
## 1233	8936877	9920450.0	-9.835730e+05	Mike Conley	2012	MEM
## 1234	11213901	14033788.4	-2.819887e+06	Mike Conley	2015	MEM
## 1235	12376298	17215071.3	-4.838773e+06	Mike Conley	2016	MEM
## 1236	36955053	29649746.2	7.305307e+06	Mike Conley	2019	MEM
## 1237	40834109	31136740.6	9.697368e+06	Mike Conley	2021	UTA
## 1238	23353409	20182554.1	3.170855e+06	Mike Conley	2023	UTA
## 1239	11184847	10246019.6	9.388274e+05	Mike Dunleavy	2007	TOT
## 1240	11184847	10123413.9	1.061433e+06	Mike Dunleavy	2007	IND
## 1241	12035849	15499939.6	-3.464091e+06	Mike Dunleavy	2008	IND
## 1242	4985919	7229767.9	-2.243849e+06	Mike Dunleavy	2013	MIL

## 1243	6123877	5110365.5	1.013512e+06	Mike Dunleavy	2017	CLE
## 1244	8706573	8218236.7	4.883363e+05	Mike James	2009	TOT
## 1245	375186	8579796.5	-8.204610e+06	Mike James	2012	CHI
## 1246	1057546	5870597.4	-4.813051e+06	Mike James	2013	DAL
## 1247	12589171	11994932.4	5.942386e+05	Mike Miller	2009	MIN
## 1248	1045199	2048455.4	-1.003256e+06	Mike Muscala	2015	ATL
## 1249	6227858	7489693.7	-1.261836e+06	Mike Muscala	2018	ATL
## 1250	629693	2445976.8	-1.816284e+06	Mike Scott	2013	ATL
## 1251	5678291	6535193.6	-8.569026e+05	Mike Scott	2020	PHI
## 1252	3057401	2668765.4	3.886356e+05	Mike Sweetney	2004	NYK
## 1253	1169058	1992333.2	-8.232752e+05	Mike Wilks	2006	CLE
## 1254	248831	4045363.2	-3.796532e+06	Mike Wilks	2010	OKC
## 1255	1610844	10697615.7	-9.086772e+06	Mikki Moore	2007	NJN
## 1256	4656363	4306243.1	3.501199e+05	Miles Bridges	2021	CHO
## 1257	1298837	5203870.3	-3.905033e+06	Milt Palacio	2005	TOR
## 1258	7064503	3380961.1	3.683542e+06	Mo Bamba	2021	ORL
## 1259	10605825	7948754.1	2.657071e+06	Mo Bamba	2023	TOT
## 1260	703965	2301905.0	-1.597940e+06	Monta Ellis	2006	GSW
## 1261	15338066	5114690.0	1.022338e+07	Monta Ellis	2009	GSW
## 1262	15560073	16647984.3	-1.087911e+06	Monta Ellis	2010	GSW
## 1263	10923629	14625639.7	-3.702011e+06	Monta Ellis	2014	DAL
## 1264	13168995	15014943.7	-1.845949e+06	Monta Ellis	2016	IND
## 1265	1633836	3852101.5	-2.218266e+06	Monte Morris	2019	DEN
## 1266	9488135	11996398.4	-2.508263e+06	Monte Morris	2022	DEN
## 1267	10916370	13830488.3	-2.914118e+06	Montrezl Harrell	2022	TOT
## 1268	2536635	8891127.3	-6.354492e+06	Montrezl Harrell	2023	PHI
## 1269	5813181	5299889.0	5.132920e+05	Moochie Norris	2004	HOU
## 1270	6588471	6078026.5	5.104445e+05	Moochie Norris	2006	NOK
## 1271	2821420	2498922.1	3.224979e+05	Moritz Wagner	2021	TOT
## 1272	2821420	1998760.8	8.226592e+05	Moritz Wagner	2021	BOS
## 1273	2733987	3589715.3	-8.557283e+05	Morris Peterson	2004	TOR
## 1274	7843283	7914372.9	-7.108993e+04	Morris Peterson	2008	NOH
## 1275	194073	565548.0	-3.714750e+05	Moses Wright	2022	DAL
## 1276	125520	1108972.0	-9.834520e+05	Mustafa Shakur	2011	WAS
## 1277	289618	1051737.9	-7.621199e+05	Mychal Mulder	2022	ORL
## 1278	337391	511526.0	-1.741350e+05	Myles Powell	2022	PHI
## 1279	3989588	6245916.1	-2.256328e+06	Myles Turner	2019	IND
## 1280	1835550	3161087.7	-1.325538e+06	Naji Marshall	2023	NOP
## 1281	1911635	1660009.9	2.516251e+05	Nando De Colo	2014	SAS
## 1282	1911635	1324020.2	5.876148e+05	Nando De Colo	2014	TOR
## 1283	5658208	7358475.8	-1.700268e+06	Nate Robinson	2010	NYK
## 1284	7411799	7647361.2	-2.355622e+05	Nate Robinson	2012	GSW
## 1285	1524144	11801953.9	-1.027781e+07	Nate Robinson	2013	CHI
## 1286	2696866	3848601.3	-1.151735e+06	Nate Robinson	2015	DEN
## 1287	5068884	5084281.5	-1.539751e+04	Nazr Mohammed	2012	OKC
## 1288	5050245	1898964.9	3.151280e+06	Nemanja Bjelica	2016	MIN
## 1289	8462198	4946236.8	3.515961e+06	Nemanja Bjelica	2021	MIA
## 1290	12945225	4956348.5	7.988877e+06	Nenê	2008	DEN
## 1291	14881088	14814847.3	6.624070e+04	Nenê	2010	DEN
## 1292	17572132	15664541.5	1.907591e+06	Nenê	2012	TOT
## 1293	17572132	13652341.0	3.919791e+06	Nenê	2012	DEN
## 1294	16621062	10388249.3	6.232813e+06	Nenê	2016	WAS
## 1295	3668630	9542762.0	-5.874132e+06	Nenê	2017	HOU
## 1296	5550404	4080971.3	1.469433e+06	Nerlens Noel	2017	TOT

## 1297	5550404	3135941.3	2.414463e+06	Nerlens Noel	2017	PHI
## 1298	2242808	8957971.0	-6.715163e+06	Nerlens Noel	2020	OKC
## 1299	3167986	2035247.3	1.132739e+06	Nick Collison	2005	SEA
## 1300	649453	1091656.8	-4.422038e+05	Nick Johnson	2015	HOU
## 1301	19193160	10062174.6	9.130985e+06	Nick Van Exel	2005	POR
## 1302	4995699	11155700.9	-6.160002e+06	Nick Young	2012	WAS
## 1303	6393485	7649659.6	-1.256175e+06	Nick Young	2015	LAL
## 1304	3531618	2889111.3	6.425067e+05	Nickeil Alexander-Walker	2020	NOP
## 1305	3662574	1222192.5	2.440381e+06	Nickeil Alexander-Walker	2022	UTA
## 1306	5158377	4482925.1	6.754519e+05	Nickeil Alexander-Walker	2023	UTA
## 1307	5158377	3569886.2	1.588491e+06	Nickeil Alexander-Walker	2023	MIN
## 1308	531538	1952882.3	-1.421344e+06	Nico Mannion	2021	GSW
## 1309	2913412	4635579.4	-1.722167e+06	Nicolas Batum	2012	POR
## 1310	13738622	12821868.1	9.167539e+05	Nicolas Batum	2021	LAC
## 1311	241056	315768.0	-7.471200e+04	Nigel Hayes	2018	TOT
## 1312	241056	519120.0	-2.780640e+05	Nigel Hayes	2018	LAL
## 1313	3515020	2051622.5	1.463398e+06	Nik Stauskas	2015	SAC
## 1314	4742073	3378341.9	1.363731e+06	Nik Stauskas	2018	TOT
## 1315	1169058	2535525.4	-1.366467e+06	Nikoloz Tskitishvili	2006	PHO
## 1316	5020921	3820819.9	1.200101e+06	Noah Vonleh	2018	TOT
## 1317	1963213	11831268.6	-9.868056e+06	Noah Vonleh	2019	NYK
## 1318	11341832	3483842.7	7.857989e+06	Norman Powell	2019	TOR
## 1319	12860117	13425432.5	-5.653155e+05	Norman Powell	2021	POR
## 1320	417133	2116056.3	-1.698923e+06	Norvel Pelle	2020	PHI
## 1321	2049214	2886127.2	-8.369132e+05	OG Anunoby	2018	TOR
## 1322	2364407	3044906.9	-6.804999e+05	OG Anunoby	2019	TOR
## 1323	17872507	16056383.6	1.816123e+06	OG Anunoby	2023	TOR
## 1324	5754342	2146267.0	3.608075e+06	Obi Toppin	2021	NYK
## 1325	5732989	3456450.6	2.276538e+06	Obi Toppin	2022	NYK
## 1326	1970778	1832054.5	1.387235e+05	Oleksiy Pecherov	2008	WAS
## 1327	250805	1634174.6	-1.383370e+06	Olivier Sarr	2022	OKC
## 1328	1672189	2832988.8	-1.160800e+06	Omer Yurtseven	2022	MIA
## 1329	1238586	5427568.4	-4.188982e+06	Omri Casspi	2014	HOU
## 1330	3987038	7119170.7	-3.132133e+06	Omri Casspi	2017	TOT
## 1331	3987038	7242149.4	-3.255111e+06	Omri Casspi	2017	SAC
## 1332	1030782	1454938.0	-4.241560e+05	Orlando Johnson	2014	TOT
## 1333	142484	1007198.7	-8.647147e+05	Orlando Johnson	2016	PHO
## 1334	397517	1978242.2	-1.580725e+06	Orlando Robinson	2023	MIA
## 1335	93534	1465890.3	-1.372356e+06	PJ Dozier	2019	BOS
## 1336	11383366	8478717.7	2.904648e+06	Paolo Banchero	2023	ORL
## 1337	662954	825108.2	-1.621542e+05	Pape Sy	2011	ATL
## 1338	36167554	23910536.0	1.225702e+07	Pascal Siakam	2021	TOR
## 1339	37062738	26903364.3	1.015937e+07	Pascal Siakam	2022	TOR
## 1340	1832711	2411352.4	-5.786414e+05	Pat Connaughton	2018	POR
## 1341	4724605	5141178.7	-4.165737e+05	Pat Garrity	2005	ORL
## 1342	1171626	2708448.2	-1.536822e+06	Patrick Beverley	2015	HOU
## 1343	8293252	4430648.1	3.862604e+06	Patrick Beverley	2016	HOU
## 1344	7595507	11267160.2	-3.671653e+06	Patrick Beverley	2017	HOU
## 1345	1634951	1706621.0	-7.167004e+04	Patrick McCaw	2018	GSW
## 1346	2291574	2645562.2	-3.539882e+05	Patrick O'Bryant	2010	TOR
## 1347	2787806	2162353.7	6.254523e+05	Patrick Patterson	2013	SAC
## 1348	4057554	3519794.3	5.377597e+05	Patrick Patterson	2014	TOR
## 1349	7464830	7039767.5	4.250625e+05	Patrick Patterson	2015	TOR
## 1350	8014772	6635467.0	1.379305e+06	Patrick Patterson	2016	TOR

## 1351	6467007	6850234.5	-3.832275e+05	Patrick Patterson	2018	OKC
## 1352	8006265	4577701.7	3.428563e+06	Patrick Williams	2023	CHI
## 1353	4348916	6082114.5	-1.733198e+06	Pau Gasol	2004	MEM
## 1354	17244541	18533422.8	-1.288882e+06	Pau Gasol	2006	MEM
## 1355	20113423	17633222.7	2.480200e+06	Pau Gasol	2008	TOT
## 1356	20113423	15904293.9	4.209129e+06	Pau Gasol	2008	MEM
## 1357	20113423	17128081.5	2.985341e+06	Pau Gasol	2008	LAL
## 1358	21063348	18812264.1	2.251084e+06	Pau Gasol	2009	LAL
## 1359	23272212	20421457.6	2.850754e+06	Pau Gasol	2010	LAL
## 1360	25199938	19893741.5	5.306196e+06	Pau Gasol	2014	LAL
## 1361	20745029	13859377.1	6.885652e+06	Pau Gasol	2019	TOT
## 1362	3252520	3798383.7	-5.458637e+05	Paul George	2012	IND
## 1363	3422494	4470133.1	-1.047639e+06	Paul George	2013	IND
## 1364	24039532	21309326.0	2.730206e+06	Paul George	2018	OKC
## 1365	41956422	40961195.2	9.952268e+05	Paul George	2021	LAC
## 1366	1112122	4062925.9	-2.950804e+06	Paul Millsap	2009	UTA
## 1367	10638535	15650835.7	-5.012301e+06	Paul Millsap	2011	UTA
## 1368	9572964	15690694.2	-6.117730e+06	Paul Millsap	2013	UTA
## 1369	12413215	17854615.3	-5.441400e+06	Paul Millsap	2014	ATL
## 1370	11953594	17346495.7	-5.392902e+06	Paul Millsap	2021	DEN
## 1371	2966564	5078572.3	-2.112008e+06	Paul Millsap	2022	TOT
## 1372	18811820	18682366.6	1.294534e+05	Paul Pierce	2004	BOS
## 1373	94778	480980.9	-3.862029e+05	Paul Watson	2020	TOT
## 1374	2400301	3194863.9	-7.945629e+05	Payton Pritchard	2022	BOS
## 1375	1296623	1722442.0	-4.258190e+05	Phil Pressey	2016	TOT
## 1376	4101359	4198805.5	-9.744646e+04	Predrag Drobnjak	2005	ATL
## 1377	3754085	5336005.6	-1.581921e+06	Quincy Acy	2017	BRK
## 1378	509992	1552030.7	-1.042039e+06	Quincy Miller	2015	TOT
## 1379	1559594	1933419.0	-3.738250e+05	Quincy Pondexter	2012	MEM
## 1380	4027362	5173216.9	-1.145855e+06	Quincy Pondexter	2015	TOT
## 1381	2621970	8608324.7	-5.986355e+06	Quincy Pondexter	2019	SAS
## 1382	2345329	4580976.6	-2.235648e+06	Quinn Cook	2021	LAL
## 1383	2345329	4167428.6	-1.822100e+06	Quinn Cook	2021	CLE
## 1384	94778	521241.1	-4.264631e+05	Quinnndary Weatherspoon	2020	SAS
## 1385	997267	1919130.0	-9.218630e+05	Quinton Ross	2005	LAC
## 1386	1209655	3547680.0	-2.338025e+06	Quinton Ross	2008	LAC
## 1387	9684484	7628797.0	2.055687e+06	RJ Barrett	2022	NYK
## 1388	6315711	10929527.7	-4.613817e+06	Rafer Alston	2007	HOU
## 1389	6662983	12792026.0	-6.129043e+06	Rafer Alston	2008	HOU
## 1390	6832411	14828647.7	-7.996237e+06	Rafer Alston	2009	ORL
## 1391	6022	644056.7	-6.380347e+05	RaiQuan Gray	2023	BRK
## 1392	6971848	7270383.7	-2.985357e+05	Raja Bell	2009	TOT
## 1393	7847100	16871460.6	-9.024361e+06	Rajon Rondo	2018	NOP
## 1394	10897225	14167260.4	-3.270035e+06	Rajon Rondo	2019	LAL
## 1395	8422344	7171137.9	1.251206e+06	Rajon Rondo	2022	TOT
## 1396	5549284	5022111.1	5.271729e+05	Ramon Sessions	2011	CLE
## 1397	6533271	9852207.1	-3.318936e+06	Ramon Sessions	2014	MIL
## 1398	2658821	5898113.4	-3.239292e+06	Ramon Sessions	2015	SAC
## 1399	3719852	7641048.0	-3.921196e+06	Ramon Sessions	2018	WAS
## 1400	3681518	2482081.6	1.199436e+06	Randy Foye	2007	MIN
## 1401	3919962	10231421.3	-6.311459e+06	Randy Foye	2014	DEN
## 1402	4008233	5095419.6	-1.087187e+06	Randy Foye	2016	OKC
## 1403	3164794	11257141.4	-8.092347e+06	Randy Foye	2017	BRK
## 1404	3653424	3716804.9	-6.338090e+04	Rashad McCants	2009	SAC

## 1405	11647933	15272384.6	-3.624452e+06	Rashard Lewis	2004	SEA
## 1406	22934412	18664048.0	4.270364e+06	Rashard Lewis	2009	ORL
## 1407	27399423	11367870.5	1.603155e+07	Rashard Lewis	2011	ORL
## 1408	28235454	19893312.5	8.342142e+06	Rasheed Wallace	2004	TOT
## 1409	4511222	7910479.8	-3.399258e+06	Rasual Butler	2007	NOK
## 1410	3359537	5339603.2	-1.980066e+06	Rasual Butler	2011	LAC
## 1411	1916775	6869525.7	-4.952751e+06	Rasual Butler	2016	SAS
## 1412	1111222	1785392.1	-6.741701e+05	Raul Neto	2017	UTA
## 1413	93534	1006494.4	-9.129604e+05	Rawle Alkins	2019	CHI
## 1414	4219251	6673059.8	-2.453809e+06	Ray Allen	2014	MIA
## 1415	1376681	1744419.9	-3.677389e+05	Ray McCallum	2016	TOT
## 1416	1376681	1424420.8	-4.773979e+04	Ray McCallum	2016	MEM
## 1417	7781728	10083536.6	-2.301809e+06	Raymond Felton	2010	CHA
## 1418	10498554	11404532.9	-9.059789e+05	Raymond Felton	2011	TOT
## 1419	2900502	9145586.7	-6.245085e+06	Raymond Felton	2018	OKC
## 1420	2339608	1412062.6	9.275454e+05	Reece Gaines	2005	TOT
## 1421	2441122	1626983.7	8.141383e+05	Reece Gaines	2006	MIL
## 1422	1537072	1570996.3	-3.392431e+04	Reggie Bullock	2015	TOT
## 1423	1601247	1866021.1	-2.647741e+05	Reggie Bullock	2016	DET
## 1424	4970801	9596022.6	-4.625222e+06	Reggie Bullock	2021	NYK
## 1425	10708731	7862289.1	2.846442e+06	Reggie Bullock	2022	DAL
## 1426	1415371	4566132.0	-3.150761e+06	Reggie Evans	2005	SEA
## 1427	2977162	5260212.2	-2.283050e+06	Reggie Jackson	2015	TOT
## 1428	17788428	17959010.4	-1.705824e+05	Reggie Jackson	2016	DET
## 1429	18933728	15508244.5	3.425484e+06	Reggie Jackson	2017	DET
## 1430	8846070	15998965.2	-7.152895e+06	Reggie Miller	2005	IND
## 1431	578918	2080391.2	-1.501473e+06	Reggie Perry	2021	BRK
## 1432	211425	1038084.8	-8.266598e+05	Reggie Perry	2022	POR
## 1433	244710	5158152.8	-4.913443e+06	Reggie Williams	2017	NOP
## 1434	17497591	15788584.3	1.709007e+06	Richard Hamilton	2011	DET
## 1435	17865582	15410305.7	2.455276e+06	Richard Jefferson	2008	NJN
## 1436	1854249	6333903.1	-4.479654e+06	Richard Jefferson	2015	DAL
## 1437	1128468	1864674.9	-7.362069e+05	Richie Frahm	2006	TOT
## 1438	1351446	4624249.5	-3.272804e+06	Rick Brunson	2004	TOT
## 1439	1351446	4623291.3	-3.271845e+06	Rick Brunson	2004	CHI
## 1440	1615545	4326107.0	-2.710562e+06	Rick Brunson	2006	TOT
## 1441	3207050	6576346.5	-3.369297e+06	Ricky Davis	2009	LAC
## 1442	19296899	20891227.4	-1.594328e+06	Ricky Rubio	2020	PHO
## 1443	1126510	1482525.9	-3.560159e+05	Robbie Hummel	2015	MIN
## 1444	20798683	13531555.1	7.267128e+06	Robert Covington	2018	PHI
## 1445	14571186	12266056.8	2.305129e+06	Robert Covington	2022	TOT
## 1446	14571186	10096055.1	4.475131e+06	Robert Covington	2022	POR
## 1447	4984900	8977893.0	-3.992993e+06	Robert Horry	2007	SAS
## 1448	4112323	8276033.8	-4.163711e+06	Robert Williams	2022	BOS
## 1449	11032413	10044557.9	9.878551e+05	Robert Williams	2023	BOS
## 1450	2264065	2301598.5	-3.753351e+04	Robin Lopez	2009	PHO
## 1451	17384404	14582671.0	2.801733e+06	Robin Lopez	2019	CHI
## 1452	1473752	6610203.6	-5.136452e+06	Rod Strickland	2004	TOT
## 1453	2106853	2003537.0	1.033160e+05	Rodions Kurucs	2021	TOT
## 1454	1198314	6576822.2	-5.378508e+06	Rodney Buford	2005	NJN
## 1455	912494	2657585.6	-1.745092e+06	Rodney Carney	2011	GSW
## 1456	4204981	6460452.7	-2.255472e+06	Rodney Hood	2019	POR
## 1457	11891400	8209334.9	3.682065e+06	Rodney Hood	2021	TOT
## 1458	11891400	5048987.6	6.842412e+06	Rodney Hood	2021	TOR

## 1459	11489471	11938393.6	-4.489226e+05	Rodney Stuckey	2012	DET
## 1460	8949802	7342137.1	1.607665e+06	Rodney Stuckey	2016	IND
## 1461	1618289	2806787.6	-1.188499e+06	Rodrigue Beaubois	2011	DAL
## 1462	1959730	5279171.6	-3.319442e+06	Roger Mason	2011	NYK
## 1463	1549506	5132711.6	-3.583206e+06	Roger Mason	2012	WAS
## 1464	1634390	4901544.2	-3.267154e+06	Roger Mason	2013	NOH
## 1465	620620	892755.2	-2.721352e+05	Roger Powell	2007	UTA
## 1466	4272217	3009173.9	1.263043e+06	Romeo Langford	2022	TOT
## 1467	5801548	4027452.8	1.774095e+06	Romeo Langford	2023	SAS
## 1468	2767700	8042617.8	-5.274918e+06	Ronald Murray	2008	TOT
## 1469	2091554	9524651.2	-7.433097e+06	Ronald Murray	2009	ATL
## 1470	2814958	6498412.1	-3.683454e+06	Ronald Murray	2010	TOT
## 1471	1707468	2422996.7	-7.155287e+05	Rondae Hollis-Jefferson	2016	BRK
## 1472	1766715	4253647.1	-2.486932e+06	Rondae Hollis-Jefferson	2017	BRK
## 1473	1813203	4749415.7	-2.936213e+06	Rondae Hollis-Jefferson	2018	BRK
## 1474	2399068	2402915.4	-3.847375e+03	Ronnie Brewer	2007	UTA
## 1475	3843565	3893900.1	-5.033511e+04	Ronnie Brewer	2010	TOT
## 1476	1421996	5519032.0	-4.097036e+06	Ronnie Brewer	2013	TOT
## 1477	998798	1486861.1	-4.880631e+05	Ronnie Price	2007	SAC
## 1478	1768190	3725523.1	-1.957333e+06	Ronnie Price	2010	UTA
## 1479	1685681	4695578.1	-3.009897e+06	Ronnie Price	2015	LAL
## 1480	1128475	3084075.5	-1.955601e+06	Ronny Turiaf	2008	LAL
## 1481	6274663	3982543.0	2.292120e+06	Ronny Turiaf	2009	GSW
## 1482	5856245	6768903.0	-9.126580e+05	Ronny Turiaf	2010	GSW
## 1483	2228428	4140193.6	-1.911766e+06	Roy Hibbert	2010	IND
## 1484	2359067	4826090.2	-2.467023e+06	Roy Hibbert	2011	IND
## 1485	1485279	3683898.6	-2.198620e+06	Royal Ivey	2010	PHI
## 1486	1679768	3654353.5	-1.974586e+06	Royal Ivey	2011	OKC
## 1487	9966161	9825041.1	1.411199e+05	Ruben Patterson	2006	POR
## 1488	10235963	16234058.8	-5.998096e+06	Ruben Patterson	2007	MIL
## 1489	23374649	18000072.7	5.374576e+06	Rudy Gay	2014	TOT
## 1490	23374649	17852325.8	5.522323e+06	Rudy Gay	2014	TOR
## 1491	6614348	8157724.9	-1.543377e+06	Rudy Gay	2022	UTA
## 1492	2685375	8707132.9	-6.021758e+06	Rudy Gobert	2017	UTA
## 1493	649453	1249174.3	-5.997213e+05	Russ Smith	2015	MEM
## 1494	5312548	4585456.7	7.270913e+05	Russell Westbrook	2010	OKC
## 1495	20122375	21535678.8	-1.413304e+06	Russell Westbrook	2015	OKC
## 1496	45867637	37660176.1	8.207461e+06	Russell Westbrook	2020	HOU
## 1497	48478072	27412352.1	2.106572e+07	Russell Westbrook	2023	LAC
## 1498	10870187	8340122.0	2.530065e+06	Ryan Anderson	2015	NOP
## 1499	23717432	14314990.7	9.402441e+06	Ryan Anderson	2017	HOU
## 1500	24386368	11305744.4	1.308062e+07	Ryan Anderson	2018	HOU
## 1501	96220	1286934.3	-1.190714e+06	Ryan Arcidiacono	2018	CHI
## 1502	3550572	2455917.7	1.094654e+06	Ryan Arcidiacono	2021	CHI
## 1503	1412596	6819836.4	-5.407240e+06	Ryan Bowen	2006	HOU
## 1504	1128475	3914450.4	-2.785975e+06	Ryan Gomes	2008	MIN
## 1505	5470780	7291287.0	-1.820507e+06	Ryan Gomes	2010	MIN
## 1506	3088438	3415652.3	-3.272143e+05	Ryan Hollins	2010	MIN
## 1507	3046940	4261011.2	-1.214071e+06	Saddiq Bey	2023	TOT
## 1508	1107217	3532713.9	-2.425497e+06	Salah Mejri	2017	DAL
## 1509	2540501	4156269.9	-1.615769e+06	Salah Mejri	2019	DAL
## 1510	1096227	2209057.3	-1.112830e+06	Salim Stoudamire	2007	ATL
## 1511	9006010	13808941.1	-4.802931e+06	Sam Cassell	2008	TOT
## 1512	2178087	2470426.2	-2.923392e+05	Sam Dekker	2017	HOU

## 1513	1281143	1968431.2	-6.872882e+05	Sam Young	2012	TOT
## 1514	2823545	6596189.2	-3.772644e+06	Samaki Walker	2004	MIA
## 1515	699903	2072372.9	-1.372470e+06	Samardo Samuels	2011	CLE
## 1516	1149251	1590187.3	-4.409363e+05	Sandro Mamukelashvili	2023	MIL
## 1517	92306	1636502.5	-1.544196e+06	Scott Machado	2019	LAL
## 1518	1143833	7007297.2	-5.863464e+06	Scott Padgett	2004	HOU
## 1519	2248568	5238369.2	-2.989801e+06	Scott Padgett	2007	TOT
## 1520	2573402	6936895.7	-4.363494e+06	Scott Williams	2005	CLE
## 1521	8166690	8425496.8	-2.588068e+05	Scottie Pippen	2004	CHI
## 1522	1763983	941379.2	8.226038e+05	Scotty Hopson	2014	CLE
## 1523	409893	2931063.6	-2.521171e+06	Sean Kilpatrick	2016	BRK
## 1524	3710455	2785392.9	9.250621e+05	Sean May	2009	CHA
## 1525	1777172	5820573.6	-4.043402e+06	Sean Rooks	2004	ORL
## 1526	2696447	3345876.1	-6.494291e+05	Sebastian Telfair	2007	BOS
## 1527	2084114	4198659.2	-2.114545e+06	Sebastian Telfair	2013	TOR
## 1528	1685681	4743001.9	-3.057321e+06	Sebastian Telfair	2015	OKC
## 1529	3913125	2948550.5	9.645745e+05	Sekou Doumbouya	2020	DET
## 1530	4082448	3538335.3	5.441127e+05	Sekou Doumbouya	2021	DET
## 1531	1584581	3467976.6	-1.883396e+06	Serge Ibaka	2010	OKC
## 1532	9216873	12853587.3	-3.636714e+06	Seth Curry	2022	TOT
## 1533	2397419	5469390.1	-3.071971e+06	Shabazz Muhammad	2018	MIN
## 1534	2941241	4291207.9	-1.349967e+06	Shabazz Napier	2018	POR
## 1535	4708586	5780314.3	-1.071728e+06	Shai Gilgeous-Alexander	2020	OKC
## 1536	8110125	9555894.4	-1.445769e+06	Shane Battier	2007	HOU
## 1537	8615896	10019712.1	-1.403816e+06	Shane Battier	2008	HOU
## 1538	8992150	8695210.4	2.969396e+05	Shane Battier	2009	HOU
## 1539	10294882	10028987.8	2.658942e+05	Shane Battier	2011	TOT
## 1540	10294882	10548522.5	-2.536405e+05	Shane Battier	2011	HOU
## 1541	4272759	6379012.2	-2.106253e+06	Shane Battier	2014	MIA
## 1542	1529000	2023402.8	-4.944028e+05	Shannon Brown	2008	CHI
## 1543	276265	3643209.5	-3.366944e+06	Shannon Brown	2015	MIA
## 1544	1604956	2415677.1	-8.107211e+05	Shaquille Harrison	2019	CHI
## 1545	22422272	19007976.9	3.414295e+06	Shareef Abdur-Rahim	2004	TOT
## 1546	4869906	2262919.7	2.606986e+06	Shaun Livingston	2005	LAC
## 1547	5105877	2428139.5	2.677737e+06	Shaun Livingston	2006	LAC
## 1548	419690	5595824.2	-5.176134e+06	Shaun Livingston	2010	WAS
## 1549	2710272	5331236.4	-2.620964e+06	Shaun Livingston	2013	TOT
## 1550	10058977	8967731.1	1.091246e+06	Shaun Livingston	2019	GSW
## 1551	1571975	3719010.2	-2.147035e+06	Shavlik Randolph	2015	PHO
## 1552	22661373	17125103.6	5.536269e+06	Shawn Marion	2007	PHO
## 1553	24074604	12066123.0	1.200848e+07	Shawn Marion	2008	MIA
## 1554	10843964	14127130.8	-3.283167e+06	Shawn Marion	2012	DAL
## 1555	2193287	2542457.6	-3.491706e+05	Shawne Williams	2009	DAL
## 1556	4734944	2675908.2	2.059036e+06	Shelden Williams	2009	TOT
## 1557	3042263	5830653.2	-2.788390e+06	Shelvin Mack	2019	MEM
## 1558	120035	2473885.1	-2.353850e+06	Skylar Mays	2023	POR
## 1559	1628979	1372096.9	2.568821e+05	Solomon Hill	2014	IND
## 1560	2099710	3820645.9	-1.720936e+06	Solomon Jones	2011	IND
## 1561	1898631	7103735.8	-5.205105e+06	Spencer Dinwiddie	2018	BRK
## 1562	21689542	15440849.3	6.248693e+06	Spencer Dinwiddie	2022	WAS
## 1563	3299867	3291469.7	8.397309e+03	Spencer Hawes	2010	SAC
## 1564	8642259	11448007.4	-2.805748e+06	Spencer Hawes	2013	PHI
## 1565	8493252	11518868.3	-3.025616e+06	Spencer Hawes	2014	TOT
## 1566	8493252	12035748.3	-3.542496e+06	Spencer Hawes	2014	CLE

## 1567	7087892	6945396.3	1.424957e+05	Spencer Hawes	2016	CHO
## 1568	7320106	7781044.9	-4.609389e+05	Spencer Hawes	2017	CHO
## 1569	4771048	3535563.0	1.235485e+06	Stanley Johnson	2019	NOP
## 1570	4315596	5504931.5	-1.189336e+06	Stanley Johnson	2020	TOR
## 1571	4141588	6135484.0	-1.993896e+06	Stanley Johnson	2023	SAS
## 1572	4078814	5118105.1	-1.039291e+06	Stephen Curry	2011	GSW
## 1573	47922728	23821708.4	2.410102e+07	Stephen Curry	2020	GSW
## 1574	1251710	3898449.1	-2.646739e+06	Stephen Graham	2010	CHA
## 1575	9708918	13389119.5	-3.680201e+06	Stephen Jackson	2008	GSW
## 1576	9955799	15177733.0	-5.221934e+06	Stephen Jackson	2009	GSW
## 1577	10821324	12660103.5	-1.838780e+06	Stephen Jackson	2010	GSW
## 1578	11832921	18189924.6	-6.357004e+06	Stephen Jackson	2011	CHA
## 1579	13375559	7983265.4	5.392294e+06	Stephen Jackson	2013	SAS
## 1580	27841752	11864255.4	1.597750e+07	Stephon Marbury	2008	NYK
## 1581	1015906	1692789.2	-6.768832e+05	Sterling Brown	2018	MIL
## 1582	997267	1421902.0	-4.246350e+05	Steve Blake	2005	WAS
## 1583	6973742	6953698.3	2.004368e+04	Steve Blake	2010	TOT
## 1584	6973742	6573573.8	4.001682e+05	Steve Blake	2010	POR
## 1585	5599229	5639013.8	-3.978477e+04	Steve Blake	2011	LAL
## 1586	5318313	5575826.6	-2.575136e+05	Steve Blake	2013	LAL
## 1587	5226617	6161478.9	-9.348619e+05	Steve Blake	2014	TOT
## 1588	2688263	4792713.8	-2.104451e+06	Steve Blake	2015	POR
## 1589	18203563	13178686.5	5.024877e+06	Steve Francis	2004	HOU
## 1590	21490968	14584976.7	6.905991e+06	Steve Francis	2006	ORL
## 1591	21490968	9682801.8	1.180817e+07	Steve Francis	2006	NYK
## 1592	9550227	13013290.9	-3.463064e+06	Steve Nash	2004	DAL
## 1593	17081028	16657225.8	4.238022e+05	Steve Nash	2009	PHO
## 1594	12152538	7627620.0	4.524918e+06	Steve Nash	2014	LAL
## 1595	1209709	2647164.6	-1.437456e+06	Steve Novak	2010	LAC
## 1596	1028781	4125804.2	-3.097023e+06	Steve Novak	2011	TOT
## 1597	4411245	4806670.8	-3.954258e+05	Steve Novak	2015	TOT
## 1598	1769214	4607836.7	-2.838623e+06	Steve Smith	2005	TOT
## 1599	3975636	5164614.5	-1.188979e+06	Steven Adams	2017	OKC
## 1600	19172818	17562137.2	1.610681e+06	Steven Adams	2022	MEM
## 1601	458150	627434.2	-1.692842e+05	Sundiata Gaines	2011	TOR
## 1602	17438002	13920879.8	3.517122e+06	Taj Gibson	2018	MIN
## 1603	2992130	6619386.0	-3.627256e+06	Taj Gibson	2023	WAS
## 1604	620620	1656591.7	-1.035972e+06	Tarence Kinsey	2007	MEM
## 1605	1112122	1755175.6	-6.430536e+05	Tarence Kinsey	2009	CLE
## 1606	649453	1778926.3	-1.129473e+06	Tarik Black	2015	HOU
## 1607	2934752	1927144.6	1.007607e+06	Taurean Prince	2017	ATL
## 1608	4147624	6907168.0	-2.759544e+06	Taurean Prince	2020	BRK
## 1609	14498172	8524904.2	5.973268e+06	Taurean Prince	2021	TOT
## 1610	14498172	5921138.0	8.577034e+06	Taurean Prince	2021	BRK
## 1611	647282	579782.6	6.749937e+04	Taylor Griffin	2010	PHO
## 1612	1613008	2363638.7	-7.506307e+05	Tayshaun Prince	2004	DET
## 1613	12704508	13539426.6	-8.349186e+05	Tayshaun Prince	2008	DET
## 1614	9454891	8056805.3	1.398086e+06	Tayshaun Prince	2014	MEM
## 1615	9867036	6781699.9	3.085336e+06	Tayshaun Prince	2015	BOS
## 1616	1070036	2902008.8	-1.831973e+06	Terence Davis	2020	TOR
## 1617	2949138	4049625.4	-1.100487e+06	Terrance Ferguson	2020	OKC
## 1618	405359	1327097.6	-9.217386e+05	Terrel Harris	2013	NOH
## 1619	1528208	5993343.9	-4.465136e+06	Terrence Jones	2017	NOP
## 1620	3576620	3400514.9	1.761051e+05	Terrence Ross	2015	TOR

## 1621	14889583	10347693.0	4.541890e+06	Terrence Ross	2020	ORL
## 1622	14037241	7803835.9	6.233405e+06	Terrence Ross	2022	ORL
## 1623	2914034	2990493.3	-7.645929e+04	Terrence Williams	2010	NJN
## 1624	2476844	4343857.2	-1.867013e+06	Terry Rozier	2018	BOS
## 1625	23697947	18020085.1	5.677862e+06	Terry Rozier	2020	CHO
## 1626	20107240	22957611.2	-2.850371e+06	Terry Rozier	2022	CHO
## 1627	1005206	2211181.3	-1.205975e+06	Terry Taylor	2022	IND
## 1628	2692750	2319732.1	3.730179e+05	Thabo Sefolosha	2009	OKC
## 1629	4549373	7689676.0	-3.140303e+06	Thabo Sefolosha	2011	OKC
## 1630	5063671	12549442.6	-7.485772e+06	Thabo Sefolosha	2017	ATL
## 1631	15290581	14002790.8	1.287790e+06	Thaddeus Young	2017	IND
## 1632	1722066	1525649.8	1.964162e+05	Thanasis Antetokounmpo	2020	MIL
## 1633	93534	728067.0	-6.345330e+05	Theo Pinson	2019	BRK
## 1634	17084572	8431976.2	8.652596e+06	Theo Ratliff	2008	MIN
## 1635	997267	1889307.7	-8.920407e+05	Theron Smith	2005	CHA
## 1636	2026613	5068960.9	-3.042348e+06	Thomas Bryant	2023	DEN
## 1637	4708762	3006717.2	1.702045e+06	Thomas Robinson	2015	TOT
## 1638	4708762	3272168.6	1.436593e+06	Thomas Robinson	2015	PHI
## 1639	1330430	6516840.7	-5.186411e+06	Thomas Robinson	2017	LAL
## 1640	93534	974508.3	-8.809743e+05	Thomas Welsh	2019	DEN
## 1641	3844810	2895791.0	9.490190e+05	Thon Maker	2018	MIL
## 1642	3389908	2866020.9	5.238871e+05	Thon Maker	2019	TOT
## 1643	4252039	3309397.0	9.426420e+05	Thon Maker	2020	DET
## 1644	2055953	5038744.7	-2.982792e+06	Thon Maker	2021	CLE
## 1645	13066542	5365901.4	7.700641e+06	Tiago Splitter	2014	SAS
## 1646	1158104	3289806.0	-2.131702e+06	Tierre Brown	2005	LAL
## 1647	13263953	20212443.6	-6.948491e+06	Tim Duncan	2015	SAS
## 1648	2645768	2561916.1	8.385192e+04	Tim Frazier	2017	NOP
## 1649	2218319	8262012.8	-6.043694e+06	Tim Frazier	2019	TOT
## 1650	2218319	7946231.0	-5.727912e+06	Tim Frazier	2019	NOP
## 1651	2218319	5920053.2	-3.701734e+06	Tim Frazier	2019	MIL
## 1652	707111	9062250.3	-8.355139e+06	Tim Frazier	2021	MEM
## 1653	21922356	14030416.2	7.891940e+06	Tim Thomas	2006	TOT
## 1654	8247748	14051626.6	-5.803879e+06	Tim Thomas	2008	LAC
## 1655	8435099	7380139.4	1.054960e+06	Tim Thomas	2009	CHI
## 1656	20254686	11133509.8	9.121176e+06	Timofey Mozgov	2017	LAL
## 1657	19032334	9913350.4	9.118984e+06	Timofey Mozgov	2018	BRK
## 1658	2130891	3704363.0	-1.573472e+06	Tobias Harris	2014	ORL
## 1659	38750442	17818691.2	2.093175e+07	Tobias Harris	2023	PHI
## 1660	4342616	6076000.4	-1.733384e+06	Tom Gugliotta	2005	TOT
## 1661	1499193	2535661.8	-1.036469e+06	Toney Douglas	2011	NYK
## 1662	2749408	3130871.6	-3.814636e+05	Toney Douglas	2013	TOT
## 1663	2749408	3169151.5	-4.197435e+05	Toney Douglas	2013	SAC
## 1664	2090646	3965341.0	-1.874695e+06	Toney Douglas	2014	TOT
## 1665	2090646	3290899.1	-1.200253e+06	Toney Douglas	2014	GSW
## 1666	3799277	8132940.4	-4.333663e+06	Toney Douglas	2016	NOP
## 1667	8640494	9230273.8	-5.897798e+05	Tony Battie	2007	ORL
## 1668	4192113	4521181.5	-3.290685e+05	Tony Bradley	2021	OKC
## 1669	5294307	7037530.4	-1.743223e+06	Tony Delk	2006	TOT
## 1670	13176943	15712753.4	-2.535810e+06	Tony Parker	2006	SAS
## 1671	16104969	19522067.9	-3.417099e+06	Tony Parker	2009	SAS
## 1672	16619730	21698154.2	-5.078424e+06	Tony Parker	2013	SAS
## 1673	18286580	14081755.5	4.204825e+06	Tony Parker	2017	SAS
## 1674	1841128	1590943.7	2.501843e+05	Tony Snell	2014	CHI

## 1675	1963688	2658549.5	-6.948615e+05	Tony Snell	2016	CHI
## 1676	2998107	5902061.8	-2.903955e+06	Tony Snell	2017	MIL
## 1677	2683517	5742626.6	-3.059110e+06	Tony Snell	2022	POR
## 1678	1475991	1534090.7	-5.809969e+04	Tony Wroten	2013	MEM
## 1679	1549054	4572334.5	-3.023281e+06	Tony Wroten	2015	PHI
## 1680	1030782	1235764.7	-2.049827e+05	Tornike Shengelia	2014	BRK
## 1681	5274030	10082001.3	-4.807971e+06	Torrey Craig	2023	PHO
## 1682	32873572	12161931.6	2.071164e+07	Tracy McGrady	2010	TOT
## 1683	32873572	9012686.0	2.386089e+07	Tracy McGrady	2010	HOU
## 1684	32873572	12205010.8	2.066856e+07	Tracy McGrady	2010	NYK
## 1685	9350455	9962011.1	-6.115561e+05	Trae Young	2022	ATL
## 1686	2196587	2570249.4	-3.736624e+05	Travis Diener	2008	IND
## 1687	2258878	2813239.3	-5.543613e+05	Travis Diener	2009	IND
## 1688	2461320	2856648.7	-3.953287e+05	Travis Diener	2010	TOT
## 1689	5577478	9635417.6	-4.057940e+06	Travis Outlaw	2009	POR
## 1690	1835550	5521766.9	-3.686217e+06	Tre Jones	2023	SAS
## 1691	3258032	4155570.0	-8.975380e+05	Tre Mann	2022	OKC
## 1692	127108	2559306.0	-2.432198e+06	Tremaine Fowlkes	2005	IND
## 1693	524000	1969438.8	-1.445439e+06	Trent Forrest	2023	ATL
## 1694	6823774	7415988.1	-5.922141e+05	Trenton Hassell	2006	MIN
## 1695	6153301	5986571.5	1.667295e+05	Trenton Hassell	2010	NJN
## 1696	687989	830255.5	-1.422665e+05	Treveon Graham	2017	CHO
## 1697	1634951	1791608.0	-1.566570e+05	Treveon Graham	2018	CHO
## 1698	1959894	2225181.1	-2.652871e+05	Treveon Graham	2020	ATL
## 1699	619670	2779998.8	-2.160329e+06	Trevor Ariza	2005	NYK
## 1700	4539615	2787429.4	1.752186e+06	Trevor Ariza	2008	ORL
## 1701	8280788	11630070.1	-3.349282e+06	Trevor Ariza	2010	HOU
## 1702	8850029	9477122.2	-6.270932e+05	Trevor Ariza	2011	NOH
## 1703	10096883	12602352.2	-2.505469e+06	Trevor Ariza	2014	WAS
## 1704	10484054	11235360.8	-7.513068e+05	Trevor Ariza	2016	HOU
## 1705	9874159	13140761.1	-3.266602e+06	Trevor Ariza	2017	HOU
## 1706	18162042	16491736.4	1.670306e+06	Trevor Ariza	2019	TOT
## 1707	18162042	14067497.2	4.094545e+06	Trevor Ariza	2019	PHO
## 1708	18162042	18092542.2	6.949981e+04	Trevor Ariza	2019	WAS
## 1709	15149110	11318197.9	3.830912e+06	Trevor Ariza	2021	MIA
## 1710	1686151	1948277.8	-2.621268e+05	Trevor Booker	2011	WAS
## 1711	11709740	12447523.7	-7.377837e+05	Trevor Booker	2017	BRK
## 1712	2173409	9612718.4	-7.439309e+06	Trey Burke	2019	TOT
## 1713	273039	4559174.5	-4.286136e+06	Trey Burke	2020	TOT
## 1714	3550572	7814303.0	-4.263731e+06	Trey Burke	2021	DAL
## 1715	2963007	3321787.5	-3.587805e+05	Trey Lyles	2017	UTA
## 1716	3040938	3477087.5	-4.361495e+05	Trey Lyles	2018	DEN
## 1717	2807448	11953272.3	-9.145824e+06	Trey Lyles	2022	TOT
## 1718	2807448	9482240.3	-6.674792e+06	Trey Lyles	2022	DET
## 1719	2807448	12882948.3	-1.007550e+07	Trey Lyles	2022	SAC
## 1720	2134998	1135823.0	9.991750e+05	Troy Bell	2004	MEM
## 1721	1211133	2827501.4	-1.616368e+06	Troy Daniels	2016	CHO
## 1722	3945448	5459529.7	-1.514082e+06	Troy Daniels	2019	PHO
## 1723	546077	3626943.5	-3.080866e+06	Troy Daniels	2020	LAL
## 1724	8240296	6658887.6	1.581408e+06	Troy Hudson	2006	MIN
## 1725	825586	677984.0	1.476020e+05	Troy Williams	2017	HOU
## 1726	2612800	1367071.4	1.245729e+06	Ty Jerome	2020	PHO
## 1727	2164885	3254001.2	-1.089116e+06	Ty Lawson	2011	DEN
## 1728	531538	984390.7	-4.528527e+05	Ty-Shon Alexander	2021	PHO

## 1729	1015906	2679877.1	-1.663971e+06	Tyler Dorsey	2018	ATL
## 1730	1668779	2238606.2	-5.698272e+05	Tyler Dorsey	2019	TOT
## 1731	2194949	2482673.0	-2.877240e+05	Tyler Ennis	2017	LAL
## 1732	1898631	3691307.1	-1.792676e+06	Tyler Ennis	2018	LAL
## 1733	2629878	2616675.4	1.320261e+04	Tyler Hansbrough	2010	IND
## 1734	4336084	3956721.7	3.793623e+05	Tyler Herro	2020	MIA
## 1735	4523713	4202488.6	3.212244e+05	Tyler Herro	2021	MIA
## 1736	1130141	1477757.8	-3.476168e+05	Tyler Honeycutt	2013	SAC
## 1737	23302348	9847926.9	1.345442e+07	Tyler Johnson	2019	MIA
## 1738	10127343	6798013.9	3.329329e+06	Tyler Zeller	2017	BOS
## 1739	2129352	9111126.1	-6.981774e+06	Tyler Zeller	2018	TOT
## 1740	6982711	4529146.8	2.453564e+06	Tyreke Evans	2013	SAC
## 1741	1048000	869539.1	1.784609e+05	Tyrese Martin	2023	ATL
## 1742	2933767	3304468.2	-3.707012e+05	Tyrese Maxey	2021	PHI
## 1743	5125371	5258713.8	-1.333428e+05	Tyronn Lue	2008	TOT
## 1744	5133162	3058515.8	2.074646e+06	Tyrus Thomas	2008	CHI
## 1745	6710066	4681091.8	2.028974e+06	Tyrus Thomas	2010	CHI
## 1746	13759227	12611494.6	1.147732e+06	Tyson Chandler	2007	NOK
## 1747	1639194	1878228.2	-2.390342e+05	Tyus Jones	2016	MIN
## 1748	8308167	4580539.7	3.727627e+06	Udonis Haslem	2007	MIA
## 1749	3650164	5690373.5	-2.040209e+06	Udonis Haslem	2016	MIA
## 1750	2898525	8096097.2	-5.197572e+06	Udonis Haslem	2019	MIA
## 1751	94778	427496.8	-3.327188e+05	Vic Law	2020	ORL
## 1752	1668248	1309762.6	3.584854e+05	Victor Claver	2013	POR
## 1753	8295509	5180596.5	3.114913e+06	Victor Oladipo	2017	OKC
## 1754	26157004	25729538.4	4.274656e+05	Victor Oladipo	2018	IND
## 1755	1719214	2222459.3	-5.032453e+05	Viktor Khryapa	2006	POR
## 1756	14207323	8818497.0	5.388826e+06	Vin Baker	2005	NYK
## 1757	18811820	19143576.4	-3.317564e+05	Vince Carter	2004	TOR
## 1758	9964573	7815407.0	2.149166e+06	Vince Carter	2018	SAC
## 1759	20016462	11646454.5	8.370007e+06	Vlade Divac	2004	SAC
## 1760	1128475	2110441.3	-9.819663e+05	Von Wafer	2008	DEN
## 1761	1282016	4573805.4	-3.291789e+06	Von Wafer	2011	BOS
## 1762	5521766	6544387.8	-1.022622e+06	Voshon Lenard	2006	POR
## 1763	505927	1554298.7	-1.048372e+06	Walker Russell	2012	DET
## 1764	18707607	9417445.7	9.290161e+06	Wally Szczerbiak	2008	TOT
## 1765	2846778	2479748.2	3.670298e+05	Walter Herrmann	2008	TOT
## 1766	2151203	5602250.5	-3.451048e+06	Walter McCarty	2005	TOT
## 1767	2151203	4725281.7	-2.574079e+06	Walter McCarty	2005	BOS
## 1768	1623587	7143751.1	-5.520164e+06	Walter McCarty	2006	LAC
## 1769	616470	1501775.1	-8.853051e+05	Walter Sharpe	2009	DET
## 1770	4353148	2859119.0	1.494029e+06	Wang Zhizhi	2004	MIA
## 1771	1419587	1963603.2	-5.440162e+05	Wayne Ellington	2010	MIN
## 1772	2769567	2851152.9	-8.158586e+04	Wayne Ellington	2013	MEM
## 1773	1361265	8297898.2	-6.936633e+06	Wayne Ellington	2015	LAL
## 1774	1917814	10494662.7	-8.576849e+06	Wayne Ellington	2016	BRK
## 1775	10477168	13602357.5	-3.125190e+06	Wayne Ellington	2019	DET
## 1776	1870631	2017417.6	-1.467866e+05	Wayne Selden	2019	MEM
## 1777	1870631	2167577.3	-2.969463e+05	Wayne Selden	2019	CHI
## 1778	912266	1526686.7	-6.144207e+05	Wayne Selden	2022	NYK
## 1779	586210	1628189.0	-1.041979e+06	Wenyen Gabriel	2022	LAL
## 1780	7427064	8371998.7	-9.449347e+05	Wesley Johnson	2019	TOT
## 1781	7427064	8558013.1	-1.130949e+06	Wesley Johnson	2019	NOP
## 1782	23441418	16120121.2	7.321297e+06	Wesley Matthews	2019	TOT

## 1783	12789000	7175350.2	5.613650e+06	Wesley Person	2004	POR
## 1784	4401019	17751976.2	-1.335096e+07	Will Barton	2018	DEN
## 1785	15219281	16346076.9	-1.126796e+06	Will Barton	2020	DEN
## 1786	15506861	7976029.2	7.530832e+06	Will Barton	2023	TOR
## 1787	1135977	1930356.1	-7.943791e+05	Will Conroy	2013	MIN
## 1788	4495477	2717579.2	1.777898e+06	Willie Cauley-Stein	2017	SAC
## 1789	2593745	11404456.7	-8.810712e+06	Willie Cauley-Stein	2020	TOT
## 1790	4739065	5163400.9	-4.243359e+05	Willie Cauley-Stein	2022	TOT
## 1791	4210474	5125093.2	-9.146192e+05	Willie Green	2007	PHI
## 1792	1832711	2449711.1	-6.170001e+05	Willie Reed	2018	LAC
## 1793	1775885	3472483.9	-1.696599e+06	Wilson Chandler	2010	NYK
## 1794	2982264	4373442.0	-1.391178e+06	Wilson Chandler	2011	TOT
## 1795	2982264	4044519.5	-1.062256e+06	Wilson Chandler	2011	DEN
## 1796	7884951	8958991.8	-1.074041e+06	Wilson Chandler	2013	DEN
## 1797	15498956	10888463.2	4.610493e+06	Wilson Chandler	2019	TOT
## 1798	15498956	6772235.1	8.726721e+06	Wilson Chandler	2019	LAC
## 1799	3088876	2280602.5	8.082735e+05	Xavier Henry	2013	NOH
## 1800	1197024	4560327.4	-3.363303e+06	Xavier Henry	2014	LAL
## 1801	18729091	19904332.4	-1.175241e+06	Yao Ming	2007	HOU
## 1802	2673790	1259902.9	1.413887e+06	Yaroslav Korolev	2006	LAC
## 1803	2755274	1260127.9	1.495146e+06	Yaroslav Korolev	2007	LAC
## 1804	1118124	4702681.0	-3.584557e+06	Yi Jianlian	2012	DAL
## 1805	519522	1052913.6	-5.333916e+05	Yves Pons	2022	MEM
## 1806	2836770	4689999.7	-1.853230e+06	Zach LaVine	2017	MIN
## 1807	23078722	30224243.9	-7.145522e+06	Zach LaVine	2021	CHI
## 1808	16732627	14401177.1	2.331450e+06	Zach Randolph	2006	POR
## 1809	22632834	19742957.8	2.889876e+06	Zach Randolph	2010	MEM
## 1810	20545878	11657139.1	8.888739e+06	Zach Randolph	2012	MEM
## 1811	23258446	18231296.6	5.027149e+06	Zach Randolph	2014	MEM
## 1812	12785432	18194945.6	-5.409514e+06	Zach Randolph	2016	MEM
## 1813	6719122	5093895.8	1.625226e+06	Zaza Pachulia	2010	ATL
## 1814	3668630	13107056.4	-9.438426e+06	Zaza Pachulia	2017	GSW
## 1815	2695527	2693552.1	1.974870e+03	Zeke Nnaji	2023	DEN
## 1816	3643540	1083469.0	2.560071e+06	Zhaire Smith	2020	PHI
## 1817	1015906	1150142.8	-1.342368e+05	Zhou Qi	2018	HOU
## 1818	12125773	12151600.2	-2.582722e+04	Zion Williamson	2021	NOP
## 1819	22422272	17142643.0	5.279629e+06	Zydrunas Ilgauskas	2004	CLE
## 1820	15117219	18198659.1	-3.081440e+06	Zydrunas Ilgauskas	2009	CLE

Insights

The main reason I created the tables with the actual salary and the predicted salary is because I wanted to look at how the models compared when looking at results for a specific player. I decided I would compare how the two models predicted salary for Kevin Durant because there were 5 seasons of data in the test set for him.

```
target_player <- "Kevin Durant"
print(subset(lm_results, player == target_player))
```

##	true_sal	modeled_sal	sal_diff	player	season	team
## 1003	6785436	21772956	-14987520	Kevin Durant	2010	OKC
## 1004	25599330	17988227	7611103	Kevin Durant	2015	OKC
## 1005	33597587	24705697	8891890	Kevin Durant	2017	GSW

```
## 1006 47469914    24171918  23297996 Kevin Durant    2021  BRK
## 1007 47186357    28526653  18659704 Kevin Durant    2022  BRK
```

```
print(subset(rf_results, player == target_player))
```

```
##      true_sal modeled_sal sal_diff      player season team
## 1003  6785436   10380765 -3595329 Kevin Durant    2010  OKC
## 1004 25599330   22952925  2646405 Kevin Durant    2015  OKC
## 1005 33597587   29163676  4433911 Kevin Durant    2017  GSW
## 1006 47469914   42591347  4878567 Kevin Durant    2021  BRK
## 1007 47186357   43159307  4027050 Kevin Durant    2022  BRK
```

Kevin Durant was the second pick in 2007, so the first season in the test set is while he was still on his rookie contract, a player's first 3 years in the NBA. Given that he was such a high draft pick, it is not surprising that both models predicted his salary to be higher than his rookie contract salary. However, the other four seasons in the test set, both models predicted his salary to be lower. The linear model had much lower salary predictions, creating much larger differentials between actual and modeled salary, the highest being in 2021 with a differential of \$23,297,996. The random forest model's largest differential was also in the 2021 season, but it was only a differential of \$4,878,567. Kevin Durant has become one of the faces of the NBA, so there are likely other non-performance reasons his salary is so high.

Conclusion

While both models were able to have a RMSE lower than the standard deviation of the salaries in the data set, the more advanced random forest model did a better job of predicting salary based on on-court performance. There are many improvements that could be made to the model. For example, we could tune the tree depth, we could analyze feature importance and focus on which features contribute the most to the model's predictions.

A limitation of the model is that it only focuses on on-court performance. An improvement would be to better understand players that received rewards, like most valuable player or all stars for example. This could potentially give the model some indication when a player's contributions go further than just their stats.

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