

Validate Data

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Validate game schedule

Load game schedule from csv file and validate it

```
### Question 6. ###  
#In a separate R program, load the CSV and validate the schedule: is the correct number of games given  
#### Answers ####  
# Load the new csv for validation  
validation_df <- read.csv("gameschedule.csv", header = T)  
validation_df
```

	home.team	away.team	home.team.goals	away.team.goals	ot
## 1	Arctic Avalanche	Frostbite Phantoms	7	1	FALSE
## 2	Frostbite Phantoms	Polar Pioneers	2	0	FALSE
## 3	Polar Pioneers	Glacial Guardians	4	3	TRUE
## 4	Glacial Guardians	Arctic Avalanche	3	5	FALSE
## 5	Arctic Avalanche	Polar Pioneers	4	2	FALSE
## 6	Frostbite Phantoms	Glacial Guardians	7	1	FALSE
## 7	Polar Pioneers	Arctic Avalanche	2	1	TRUE
## 8	Glacial Guardians	Frostbite Phantoms	1	6	FALSE
## 9	Arctic Avalanche	Glacial Guardians	8	2	FALSE
## 10	Frostbite Phantoms	Arctic Avalanche	3	6	FALSE
## 11	Polar Pioneers	Frostbite Phantoms	2	6	FALSE
## 12	Glacial Guardians	Polar Pioneers	1	7	FALSE

```
# select some rows randomly  
set.seed(786)  
random_selected_rows <- sample(1:nrow(validation_df), 6, replace = FALSE)  
  
# Look at the data again ans comment  
validation_df[random_selected_rows,]
```

	home.team	away.team	home.team.goals	away.team.goals	ot
## 4	Glacial Guardians	Arctic Avalanche	3	5	FALSE
## 1	Arctic Avalanche	Frostbite Phantoms	7	1	FALSE
## 7	Polar Pioneers	Arctic Avalanche	2	1	TRUE
## 5	Arctic Avalanche	Polar Pioneers	4	2	FALSE
## 2	Frostbite Phantoms	Polar Pioneers	2	0	FALSE
## 6	Frostbite Phantoms	Glacial Guardians	7	1	FALSE

```

for (row in 1:nrow(validation_df[random_selected_rows,])){
  if(validation_df[random_selected_rows,]$ot[row] == "TRUE"){
    if (isTRUE(validation_df[random_selected_rows,]$home.team.goals[row] - validation_df[random_selected_rows,]$away.team.goals[row] == 0)){
      print("Yes, the goal difference is 1 for the tie games." )
    }
  }
}

```

```
## [1] "Yes, the goal difference is 1 for the tie games."
```

The number of games is correct since we sampled only 6 and the serial number is correct as well.

The ties have been resolved and those that were TRUE have an extra score assigned to one of the teams in the tie game. For tie games, is the goal difference 1? Yes