

```
file_1 <- "Month-"  
file_2 <- ".csv"  
month <- 1:13
```

```
for(i in month) {
```

```
  # create file name
```

```
  if(i %in% 1:9) {
```

```
    file_name <- paste0("data/", file_1, 0, i, file_2)
```

```
  } else if(i %in% 10:12) {
```

```
    file_name <- paste0("data/", file_1, i, file_2)
```

```
  } else {
```

```
    response <- paste(i, "is an invalid month")
```

```
    print(response)
```

```
    next
```

```
  }
```

```
  # import data
```

```
  if(file.exists(file_name)) {
```

```
    df <- read_csv(file_name)
```

```
    assign(paste0("df.month.", i), df)
```

```
    rm(df)
```

```
  } else {
```

```
    response <- paste("There is no available data for month", i)
```

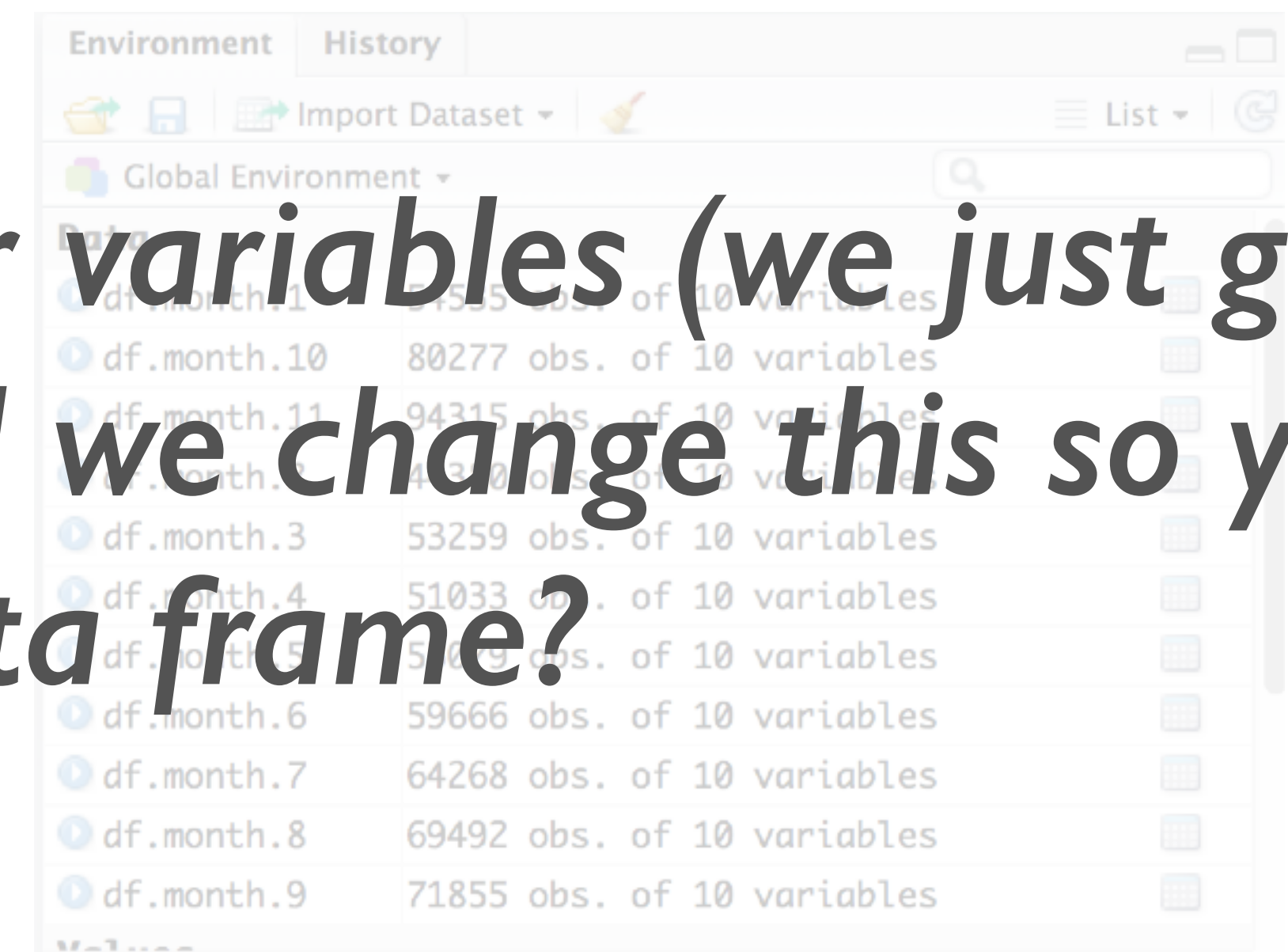
```
    print(response)
```

```
  }
```

```
}
```

# SOLUTION

When you run this for months 1:13



The screenshot shows the RStudio Environment pane with a list of data frames: df.month.1 through df.month.9. Each entry shows the number of observations and the number of variables. For example, df.month.1 has 54555 obs. of 10 variables, and df.month.9 has 71855 obs. of 10 variables.

Object	Observations	Variables
df.month.1	54555 obs.	10 variables
df.month.10	80277 obs.	10 variables
df.month.11	94315 obs.	10 variables
df.month.12	44320 obs.	10 variables
df.month.3	53259 obs.	10 variables
df.month.4	51033 obs.	10 variables
df.month.5	51019 obs.	10 variables
df.month.6	59666 obs.	10 variables
df.month.7	64268 obs.	10 variables
df.month.8	69492 obs.	10 variables
df.month.9	71855 obs.	10 variables

and for months 12 & 13 the response is:

```
[1] "There is no available data for month 12"  
[1] "13 is an invalid month"
```

***Since all our data frames have similar variables (we just get updated data each month), how could we change this so you just create one single data frame?***

```
file_1 <- "Month-"  
file_2 <- ".csv"  
month <- 1:13
```

```
# create empty data frame  
df.all.months <- data.frame(NULL)
```

```
for(i in month) {
```

```
  # create file name
```

```
  if(i %in% 1:9) {
```

```
    file_name <- paste0("data/", file_1, 0, i, file_2)
```

```
  } else if(i %in% 10:12) {
```

```
    file_name <- paste0("data/", file_1, i, file_2)
```

```
  } else {
```

```
    response <- paste(i, "is an invalid month")
```

```
    print(response)
```

```
    next
```

```
  }
```

```
# import data
```

```
if(file.exists(file_name)) {
```

```
  df <- read_csv(file_name)
```

```
  df.all.months <- rbind(df.all.months, df)
```

```
  rm(df)
```

```
} else {
```

```
  response <- paste("There is no available data for month", i)
```

```
  print(response)
```

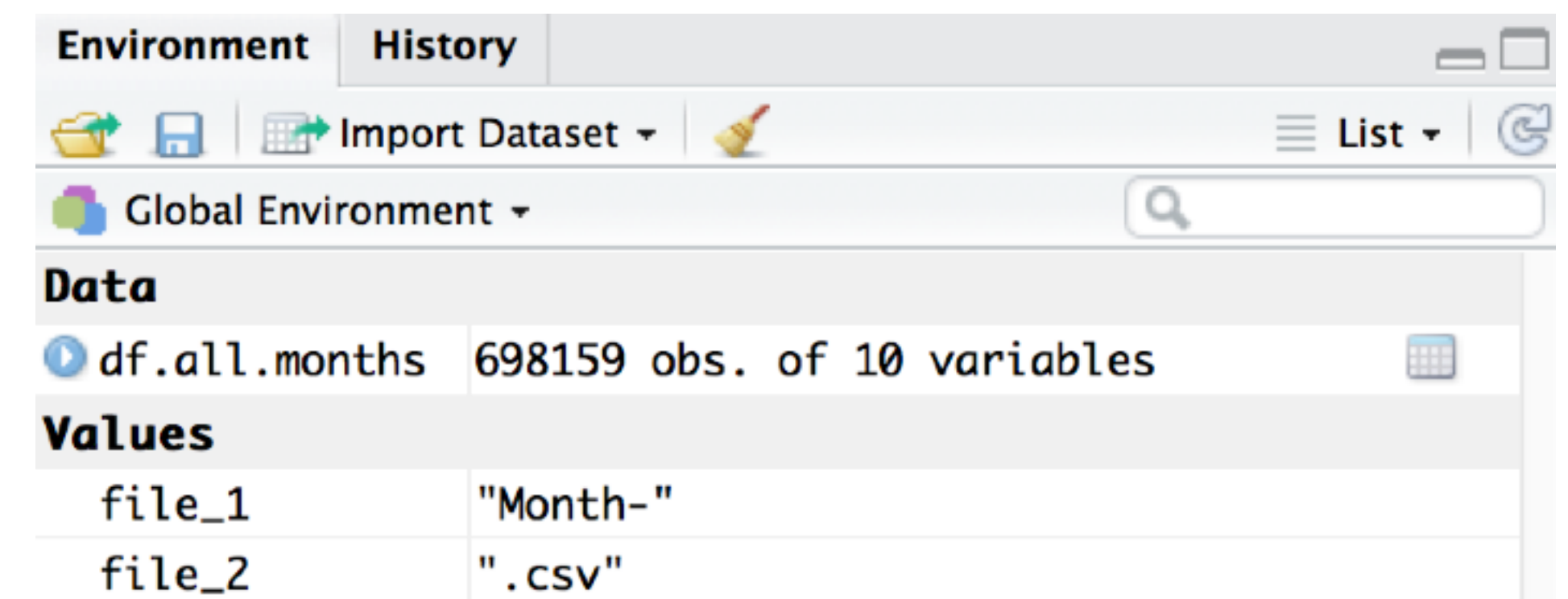
```
}
```

```
}
```

# SOLUTION

1. Create an empty data frame.

2. Then as you import the files, you can rbind the new data to our empty data frame.



Environment		History
Global Environment		
Data		
df.all.months	698159 obs. of 10 variables	
Values		
file_1	"Month-"	
file_2	".csv"	