

Quiz 5 Question

```
friends_df <- data.frame(  
  People_who_measure = c('Ash', 'Jacki', 'Matt','Mike','Rol'),  
  people_1 = c(175, 176, 174,180,181),  
  people_2 = c(173, 174, 173,179.3,180),  
  people_3 = c(176, 175, 175,180,179),  
  people_4 = c(174, 175, 176,180,180),  
  people_5 = c(173, 175, 174,179.2,179),  
  people_6 = c(175, 176, 174,180,181),  
  people_7 = c(173, 174, 173,179.3,180),  
  people_8 = c(176, 175, 175,180,179),  
  people_9 = c(174, 175, 176,180,180),  
  people_10 = c(173, 175, 174,179.2,179),  
  people_11 = c(175, 176, 174,180,181),  
  people_12 = c(173, 174, 173,179.3,180),  
  people_13 = c(176, 175, 175,180,179),  
  people_14 = c(174, 175, 176,180,180),  
  people_15 = c(173, 175, 174,179.2,179),  
  people_16 = c(175, 176, 174,180,181),  
  people_17 = c(173, 174, 173,179.3,180),  
  people_18 = c(176, 175, 175,180,179),  
  people_19 = c(174, 175, 176,180,180),  
  people_20 = c(173, 175, 174,179.2,179)  
)
```

```
friends_df
```

	People_who_measure	people_1	people_2	people_3	people_4	people_5	people_6
1	Ash	175	173.0	176	174	173.0	175
2	Jacki	176	174.0	175	175	175.0	176
3	Matt	174	173.0	175	176	174.0	174
4	Mike	180	179.3	180	180	179.2	180

5		Rol	181	180.0	179	180	179.0	181
	people_7	people_8	people_9	people_10	people_11	people_12	people_13	people_14
1	173.0	176	174	173.0	175	173.0	176	174
2	174.0	175	175	175.0	176	174.0	175	175
3	173.0	175	176	174.0	174	173.0	175	176
4	179.3	180	180	179.2	180	179.3	180	180
5	180.0	179	180	179.0	181	180.0	179	180
	people_15	people_16	people_17	people_18	people_19	people_20		
1	173.0	175	173.0	176	174	173.0		
2	175.0	176	174.0	175	175	175.0		
3	174.0	174	173.0	175	176	174.0		
4	179.2	180	179.3	180	180	179.2		
5	179.0	181	180.0	179	180	179.0		

Simulation Test

Distinct test is that the distinct 5 People_who_measure

```
unique(friends_df$People_who_measure)
```

```
[1] "Ash" "Jacki" "Matt" "Mike" "Rol"
```

Null value test

```
any(is.na(friends_df))
```

```
[1] FALSE
```

Test of count variables

```
ncol(friends_df)
```

```
[1] 21
```