

Responsi Praktikum DS IF-E

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Responsi

Instruksi

1. Kerjakan soal-soal yang ada! Jangan lupa **tulis NAMA dan NIM pada author!**
2. Jawablah dengan mengisi chunk dibawah soal!
3. Export hasil pekerjaan dalam format **PDF/Word**
4. Simpan file dengan format : **nim_Responsi_E** ex : 123190046_Responsi_E
5. Upload file .Rmd, .pdf dan gambar yg disimpan ke GDrive dan kumpulkan link yg dapat diakses ke SPADA

SOAL

1. Load library apa saja yang kira-kira digunakan! **(2 poin)**

```
library(tidyverse)
```

```
## -- Attaching packages ----- tidyverse 1.3.2 --
## v ggplot2 3.4.0      v purrr   0.3.4
## v tibble  3.1.8      v dplyr  1.0.10
## v tidyr   1.2.1      v stringr 1.5.0
## v readr   2.1.2      v forcats 0.5.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
library(vroom)
library(here)
```

```
## here() starts at E:/semester 5/2. Course/Praktikum Data Science IF-E/Pertemuan 10 (Responsi)/Responsi
```

Kasus 1

2. Load dataset “Mobilephone_prices.csv” dan tampilkan struktur dataset tersebut! **(3 poin)**

```
mobPhonePrices <- vroom(here("Mobilephone_prices.csv"))
```

```
## Rows: 85 Columns: 10
## -- Column specification -----
## Delimiter: ","
## chr (6): Phone_brand, Phone_category, Operating_System, Phone_name, Phone_co...
## dbl (4): Phone_price_kz, Battery_life_in_mAh, Y_Shopping_sales, Y_Caala_sales
##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

3. Tampilkan 10 Top “Phone Sales” data berdasarkan Y_Shopping_sales dari brand “APPLE” secara urut dari yang terbesar. Yang ditampilkan hanya Phone_brand, Phone_name, dan Y_Shopping_sales. (5 poin)

```
mobPhonePrices %>%
  arrange(desc(Y_Shopping_sales)) %>%
  filter(Phone_brand == "APPLE" ) %>%
  select(Phone_brand, Phone_name, Y_Shopping_sales) %>%
  head(10)
```

```
## # A tibble: 10 x 3
##   Phone_brand Phone_name   Y_Shopping_sales
##   <chr>       <chr>         <dbl>
## 1 APPLE      iPhone 7 Plus      40
## 2 APPLE      iPhone 7           30
## 3 APPLE      iPhone 8           30
## 4 APPLE      iPhone 7 Plus      24
## 5 APPLE      iPhone 7 Plus      20
## 6 APPLE      iPhone 8           18
## 7 APPLE      iPhone 11 Pro      17
## 8 APPLE      iPhone 11 Pro      16
## 9 APPLE      iPhone 8 Plus      15
## 10 APPLE     iPhone 11          15
```

4. Buatlah dataframe baru yang berisikan data brand dan rata-rata penjualannya dengan menggunakan fungsi buatan! Tampilkan dataframe baru tersebut! (15 poin)

```
#fungsi untuk menghitung rata-rata
# rata <- function(dt){
#   x <- dt %>% count(Phone_brand)
#   sums <- dt %>% summarize(total = mean(Y_Shopping_Sales))
#   ratas <- sums / x
#   return(ratas)
# }

# untuk mengecek data yang unik dari kolom Phone_brand
# data <- unique(mobPhonePrices, Phone_brand)

# untuk menghitung banyaknya data unik diatas
```

```

# n <- nrow(data)

# inisialisasi array (tidak perlu diisi lagi)
# brand = array()
# rata2 = array()

# perulangan untuk membuat data rata-rata dari masing-masing platform dengan fungsi yang sudah dibuat s
# for (i in 1:n){
#   new_data <- phone_sales %>%
#     filter(rata2 == data$rata2[i])
#   brand[i] <- data$rata2[i]
#   rata2[i] <- rata(new_data)

# }

# membuat dataframe baru yang berisikan brand dan hasil perhitungan rata-rata
# df <- data.frame("Brand" = brand[i], "Rata_Rata" = rata2[i])

# tampilkan dataframe baru
# df

```

5. Gunakan data pada nomor 4 untuk menambahkan kolom baru dengan nama Penjualan dengan ketentuan :

- a. Rata-rata lebih dari 20 maka Penjualan akan bernilai “Sangat Baik”
- b. Rata-rata lebih dari 10 maka Penjualan akan bernilai “Baik”
- c. Rata-rata lebih dari 5 maka Penjualan akan bernilai “Cukup Baik”
- d. Rata-rata kurang dari 5 maka Penjualan akan bernilai “Kurang Baik”

Kemudian tampilkan hasilnya! **(5 poin)**

```

# df <- df %>%
#   mutate(Penjualan = ____ )
# df

```

6. Buatlah diagram pie dengan menggunakan data pada nomor 5,

- a. isi pie berdasarkan data rata-rata penjualan
- b. warna berdasarkan kolom Penjualan

seperti contoh gambar 1! **(10 poin)**

```

# pie_dg <- df %>%
#   ggplot(aes(x = ___, y = ____, fill = ____)) +
#   ___(stat = "identity", width = 0.5, color = "white") +
#   ___("y", start = 0) +
#   labs(
#     x = "",
#     y = "Penjualan Ponsel",
#     title = "Rata-rata Penjualan Ponsel",
#     subtitle = "Berdasarkan Brand",
#     fill = "Daftar Kualitas Penjualan",
#   ) +

```

```
# geom_text(aes(label = paste0(round(____*10), "%")), position = position_stack(vjust = 0.5), size = 10)
# pie_dg
```

7. Dengan menggunakan dataset asli, buatlah perhitungannya rata-rata penjualan berdasarkan kategori ponsel dengan nama kolom *Rata_Penjualan* dan total penjualan per tahun dengan nama kolom *Total_Penjualan*! (5 poin)

```
df2 <- mobPhonePrices %>%
  group_by(Phone_category) %>%
  summarize(Rata_Penjualan = mean(Y_Shopping_sales), Total_Penjualan = mean(Y_Caala_sales))
df2
```

```
## # A tibble: 2 x 3
##   Phone_category Rata_Penjualan Total_Penjualan
##   <chr>          <dbl>          <dbl>
## 1 BASIC PHONE    29.6            632.
## 2 SMARTPHONE     9.46           21.0
```

8. Gunakan data pada nomor 7 untuk menambahkan kolom baru dengan nama *Rate_Rata_Penjualan* dengan ketentuan :
- Rata-rata lebih dari 20 maka *Rate_Rata_Penjualan* akan bernilai “Terlampau Baik”
 - Rata-rata lebih dari 10 maka *Rate_Rata_Penjualan* akan bernilai “Baik”
 - Rata-rata kurang dari 10 maka *Rate_Rata_Penjualan* akan bernilai “Cukup Baik”

Kemudian tampilkan hasilnya! (5 poin)

```
# kondisi <- function(kondisi){
#   if(Rata_Penjualan > 20) {
#     return("Terlampau Baik")
#   } else if (Rata_Penjualan > 10 && Rata_Penjualan <= 20) {
#     return("Baik")
#   } else if (Rata_Penjualan < 10) {
#     return("Cukup Baik")
#   }
# }

# df2 <- df2 %>%
#   mutate(Rate_Rata_Penjualan = kondisi)
# df2
```

9. Buatlah diagram bar dengan menggunakan data pada nomor 7,
- x adalah Kategori
 - y adalah Total Penjualan
 - warna berdasarkan Kategori

seperti contoh gambar 2! (10 poin)

```
# ___ = as.factor(____)

# bar_dg <- ___ %>%
#   ggplot(aes(x = ___, y = ___, fill = ___)) +
#   ___(stat = "identity") +
#   ___() +
#   labs(
#     x = "Kategori",
#     y = "Total Penjualan Ponsel",
#     title = "Total penjualan Ponsel Berdasarkan Kategori",
#     subtitle = "Antara Smartphone dan Basic Phone",
#     fill = "Kategori"
#   )

# bar_dg
```

Kasus 2

10. Buatlah dataframe baru dengan ketentuan :

- terdapat 4 kolom : Tipe, Tahun, Hardware, Skor
- Tipe : Poco X3 Pro, Realme GT Master, iPhone 12 Pro Max
- Tahun : 2021, 2021, 2020
- Hardware : CPU, GPU
- Antutu_Benchmark : 149529, 209484, 161771, 157611, 194470, 278436

Masing masing tipe smartphone akan memiliki hardware CPU dan GPU dengan skor antutu benchmark sesuai urutan yang diberikan! **(10 poin)**

```
# daftar data sesuai contoh
# pemain <- c(____)
# tahun <- c(____)
# keahlian <- c(____)
# poin <- c(____)

# pembuatan dataframe kosong
# df3 <- data.frame(____ = character(0), ____ = character(0), ____ = character(0), ____ = integer(0))
# kk = ____

# perulangan untuk menggabungkan dataframe kosong dengan dataframe isi
# for(i in 1:____){
#   for(j in 1:____){
#     nt <- data.frame(____ = ____[i], ____ = ____[i], ____ = ____[j], ____ = ____[kk])
#     df3 <- ____ (df3, nt)
#     kk <- kk + 1
#   }
# }

#tampilkan dataframe baru
# df3
```

11. Ubah data nomor 10 dari data kolom menjadi data baris dengan kuncinya adalah kolom hardware dan data antutu benchmark akan masuk ke dalam kolom baru , sehingga kolom dari data tersebut berubah menjadi: **(5 poin)**

| Tipe | Tahun | CPU | GPU |

```
# df_wide <- ___(____, key = ___, value = ___)
# df_wide
```

Kasus 3

12. Load dataset “player.csv” dan “community.csv” dan tampilkan glimpse kedua dataset tersebut! **(2 poin)**

```
player <- vroom(here("player.csv"))
```

```
## Rows: 1000 Columns: 4
## -- Column specification -----
## Delimiter: ","
## chr (2): Name, Stats
## dbl (2): Year, Point
##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

```
community <- vroom(here("community.csv"))
```

```
## Rows: 550 Columns: 5
## -- Column specification -----
## Delimiter: ","
## chr (3): Name, School, Continent
## dbl (2): Age, Height
##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

```
glimpse(player)
```

```
## Rows: 1,000
## Columns: 4
## $ Name <chr> "Wang Joshua", "Wang Joshua", "Wang Joshua", "Wang Joshua", "Wan~
## $ Year <dbl> 2012, 2012, 2012, 2012, 2012, 2021, 2021, 2021, 2021, 2021, 2018~
## $ Stats <chr> "shots", "interceptions", "tackles", "passing", "dribbles", "sho~
## $ Point <dbl> 56, 80, 66, 91, 97, 50, 97, 91, 61, 53, 93, 78, 89, 66, 63, 96, ~
```

```
glimpse(community)
```

```
## Rows: 550
## Columns: 5
## $ Name      <chr> "Stockham Mackenzie", "el-Salame Majeeda", "al-Ayub Dhaki", ~
## $ Age       <dbl> 36, 38, 28, 20, 35, 46, 45, 26, 39, 31, 38, 49, 40, 21, 33, ~
## $ School    <chr> "Central Valley Institute", "Ravenwood Institute", "Stonewal~
## $ Height    <dbl> 162, 159, 162, 176, 154, 159, 178, 158, 154, 169, 171, 177, ~
## $ Continent <chr> "Australia", "Australia", "Europe", "Australia", "South Amer~
```

13. Sama seperti soal nomor 11, ubahlah data player pada nomor 12 menjadi data baris dengan stats menjadi kuncinya! **(5 poin)**

```
# dfChange <- ___(___, key = ___, value = ___)
# dfChange
```

14. Dengan data nomor 13, tampilkan 10 top data berdasarkan dribbles dan passingurut dari yang terbesar! **(5 poin)**

```
# dfChange %>%
#   arrange(desc(Stats)) %>%
#   filter(Stats == "dribbles", Stats == "passing" ) %>%
#   select(Name, Stats, Point) %>%
#   head(10)
```

15. Dengan menggunakan data nomor 13, tampilkan 10 Top player data berdasarkan shots pada tahun 2017 secara urut dari yang terbesar. Yang ditampilkan hanya Name, Year, shots. **(5 poin)**

| Name | Year | shots |

```
#
```

16. Tampilkan data jumlah pemain dari tiap tahunnya dengan menggunakan data nomor 13! **(5 poin)**

```
# data <- ___ %>%
#   group_by(___) %>%
#   summarise(___ = n())
# data
```

17. Tampilkan seluruh data community yang berasal dari sekolah “Winterville University” dan urutkan berdasarkan usia dari yang tertua! **(5 poin)**

```
community %>%
  arrange(desc(Age)) %>%
  filter(School == "Winterville University" ) %>%
  select(Name, Age, School, Height, Continent)
```

```
## # A tibble: 10 x 5
##   Name      Age School      Height Continent
##   <chr>    <dbl> <chr>      <dbl> <chr>
## 1 al-Gaber Kaarim      49 Winterville University    166 Australia
```

```
## 2 Sanchir Chi-Thong      45 Winterville University    165 Asia
## 3 Herrada Rayven        41 Winterville University    151 Africa
## 4 Aashiq Summer         41 Winterville University    164 Europe
## 5 Bemski Angelique      39 Winterville University    183 South America
## 6 Burkhart Ariadne      26 Winterville University    160 Asia
## 7 el-Jalali Zaidan      23 Winterville University    174 South America
## 8 el-Saeed Mubarak      22 Winterville University    179 Asia
## 9 Zheng William         19 Winterville University    153 Antarctica
## 10 Kreeger Katrina      17 Winterville University    167 Africa
```

18. Tampilkan seluruh data community yang berasal dari benua “South America” dan urutkan berdasarkan nama sekolah dari huruf A dan tinggi badan dari yang tertinggi dan tampilkan Name, School, Height, Continent! (5 poin)

| Name | School | Height | Continent |

```
community %>%
  arrange(School, desc(Height)) %>%
  filter(Continent == "South America" ) %>%
  select(Name, School, Height, Continent)
```

```
## # A tibble: 84 x 4
##   Name                School                Height Continent
##   <chr>               <chr>                <dbl> <chr>
## 1 Robles Dominic     Central Valley Academy    177 South America
## 2 Martinez Erika     Central Valley Academy    164 South America
## 3 Slavin Eric        Central Valley College     178 South America
## 4 Tran Danny         Central Valley College     171 South America
## 5 Porter Jo Van      Central Valley School       178 South America
## 6 Mims Kevin         Central Valley School       178 South America
## 7 Burch Cannon       Central Valley School       153 South America
## 8 Wild Jacob         Central Valley University   182 South America
## 9 al-Demian Zuhra    Central Valley University   154 South America
## 10 Shangreaux Julianna Clearwater Academy    167 South America
## # ... with 74 more rows
```

19. Tampilkan data jumlah community dari tiap benua! (5 poin)

```
# community %>%
#   select(Continent) %>%
#   mutate(jumlah_community = count(Name))
```

20. Gabungkan data community dan data wide player yang memiliki identitas yang sama! (5 poin)

```
data_gabungan <- merge(community, player, by = "Name")
data_gabungan
```

```
##           Name Age      School Height  Continent
## 1  al-Burki Neeshaan  18  Coral Coast University    167      Asia
```


## 2	al-Burki Neeshaan	18	Coral Coast University	167	Asia
## 3	al-Burki Neeshaan	18	Coral Coast University	167	Asia
## 4	al-Burki Neeshaan	18	Coral Coast University	167	Asia
## 5	al-Burki Neeshaan	18	Coral Coast University	167	Asia
## 6	al-Nazar Mukarram	26	Seal Gulch University	160	Australia
## 7	al-Nazar Mukarram	26	Seal Gulch University	160	Australia
## 8	al-Nazar Mukarram	26	Seal Gulch University	160	Australia
## 9	al-Nazar Mukarram	26	Seal Gulch University	160	Australia
## 10	al-Nazar Mukarram	26	Seal Gulch University	160	Australia
## 11	al-Raad Aayid	18	Savanna Institute	182	Africa
## 12	al-Raad Aayid	18	Savanna Institute	182	Africa
## 13	al-Raad Aayid	18	Savanna Institute	182	Africa
## 14	al-Raad Aayid	18	Savanna Institute	182	Africa
## 15	al-Raad Aayid	18	Savanna Institute	182	Africa
## 16	al-Salahuddin Daifallah	23	Monarch University	175	Europe
## 17	al-Salahuddin Daifallah	23	Monarch University	175	Europe
## 18	al-Salahuddin Daifallah	23	Monarch University	175	Europe
## 19	al-Salahuddin Daifallah	23	Monarch University	175	Europe
## 20	al-Salahuddin Daifallah	23	Monarch University	175	Europe
## 21	al-Shaker Naadir	25	Clearwater High	165	South America
## 22	al-Shaker Naadir	25	Clearwater High	165	South America
## 23	al-Shaker Naadir	25	Clearwater High	165	South America
## 24	al-Shaker Naadir	25	Clearwater High	165	South America
## 25	al-Shaker Naadir	25	Clearwater High	165	South America
## 26	Braa Jackson	23	Central Valley College	182	North America
## 27	Braa Jackson	23	Central Valley College	182	North America
## 28	Braa Jackson	23	Central Valley College	182	North America
## 29	Braa Jackson	23	Central Valley College	182	North America
## 30	Braa Jackson	23	Central Valley College	182	North America
## 31	Cervantes Sergio	27	Ravenwood High	160	Australia
## 32	Cervantes Sergio	27	Ravenwood High	160	Australia
## 33	Cervantes Sergio	27	Ravenwood High	160	Australia
## 34	Cervantes Sergio	27	Ravenwood High	160	Australia
## 35	Cervantes Sergio	27	Ravenwood High	160	Australia
## 36	Daniels Saleh	32	Stonewall Academy	184	Africa
## 37	Daniels Saleh	32	Stonewall Academy	184	Africa
## 38	Daniels Saleh	32	Stonewall Academy	184	Africa
## 39	Daniels Saleh	32	Stonewall Academy	184	Africa
## 40	Daniels Saleh	32	Stonewall Academy	184	Africa
## 41	Danner Gabriel	17	Hercules Institute	160	Antarctica
## 42	Danner Gabriel	17	Hercules Institute	160	Antarctica
## 43	Danner Gabriel	17	Hercules Institute	160	Antarctica
## 44	Danner Gabriel	17	Hercules Institute	160	Antarctica
## 45	Danner Gabriel	17	Hercules Institute	160	Antarctica
## 46	Davis Tracy	25	Sunny Hills College	174	Australia
## 47	Davis Tracy	25	Sunny Hills College	174	Australia
## 48	Davis Tracy	25	Sunny Hills College	174	Australia
## 49	Davis Tracy	25	Sunny Hills College	174	Australia
## 50	Davis Tracy	25	Sunny Hills College	174	Australia
## 51	Dew-Merriex Tyrae	28	Clearwater University	175	North America
## 52	Dew-Merriex Tyrae	28	Clearwater University	175	North America
## 53	Dew-Merriex Tyrae	28	Clearwater University	175	North America
## 54	Dew-Merriex Tyrae	28	Clearwater University	175	North America
## 55	Dew-Merriex Tyrae	28	Clearwater University	175	North America

## 56	Duong Austin	18	Pleasant Hill Academy	175	South America
## 57	Duong Austin	18	Pleasant Hill Academy	175	South America
## 58	Duong Austin	18	Pleasant Hill Academy	175	South America
## 59	Duong Austin	18	Pleasant Hill Academy	175	South America
## 60	Duong Austin	18	Pleasant Hill Academy	175	South America
## 61	Einsel Ryan	28	Stonewall High	177	Australia
## 62	Einsel Ryan	28	Stonewall High	177	Australia
## 63	Einsel Ryan	28	Stonewall High	177	Australia
## 64	Einsel Ryan	28	Stonewall High	177	Australia
## 65	Einsel Ryan	28	Stonewall High	177	Australia
## 66	el-Haque Aiman	17	Green Meadows Institute	166	South America
## 67	el-Haque Aiman	17	Green Meadows Institute	166	South America
## 68	el-Haque Aiman	17	Green Meadows Institute	166	South America
## 69	el-Haque Aiman	17	Green Meadows Institute	166	South America
## 70	el-Haque Aiman	17	Green Meadows Institute	166	South America
## 71	el-Mattar Haarith	35	Sacred Heart College	177	South America
## 72	el-Mattar Haarith	35	Sacred Heart College	177	South America
## 73	el-Mattar Haarith	35	Sacred Heart College	177	South America
## 74	el-Mattar Haarith	35	Sacred Heart College	177	South America
## 75	el-Mattar Haarith	35	Sacred Heart College	177	South America
## 76	el-Saeed Mubarak	22	Winterville University	179	Asia
## 77	el-Saeed Mubarak	22	Winterville University	179	Asia
## 78	el-Saeed Mubarak	22	Winterville University	179	Asia
## 79	el-Saeed Mubarak	22	Winterville University	179	Asia
## 80	el-Saeed Mubarak	22	Winterville University	179	Asia
## 81	el-Samra Amaan	33	Central Valley University	183	Africa
## 82	el-Samra Amaan	33	Central Valley University	183	Africa
## 83	el-Samra Amaan	33	Central Valley University	183	Africa
## 84	el-Samra Amaan	33	Central Valley University	183	Africa
## 85	el-Samra Amaan	33	Central Valley University	183	Africa
## 86	Emerson Tyler	17	Rutherford High	167	Asia
## 87	Emerson Tyler	17	Rutherford High	167	Asia
## 88	Emerson Tyler	17	Rutherford High	167	Asia
## 89	Emerson Tyler	17	Rutherford High	167	Asia
## 90	Emerson Tyler	17	Rutherford High	167	Asia
## 91	Gilbert-Mayes Savon	28	Eastview Institute	171	Africa
## 92	Gilbert-Mayes Savon	28	Eastview Institute	171	Africa
## 93	Gilbert-Mayes Savon	28	Eastview Institute	171	Africa
## 94	Gilbert-Mayes Savon	28	Eastview Institute	171	Africa
## 95	Gilbert-Mayes Savon	28	Eastview Institute	171	Africa
## 96	Gonzales Timothy	18	Eastview Academy	178	South America
## 97	Gonzales Timothy	18	Eastview Academy	178	South America
## 98	Gonzales Timothy	18	Eastview Academy	178	South America
## 99	Gonzales Timothy	18	Eastview Academy	178	South America
## 100	Gonzales Timothy	18	Eastview Academy	178	South America
## 101	Hilb Tristan	27	Winterville Academy	179	North America
## 102	Hilb Tristan	27	Winterville Academy	179	North America
## 103	Hilb Tristan	27	Winterville Academy	179	North America
## 104	Hilb Tristan	27	Winterville Academy	179	North America
## 105	Hilb Tristan	27	Winterville Academy	179	North America
## 106	Hunter Michael	19	Eastview Institute	177	North America
## 107	Hunter Michael	19	Eastview Institute	177	North America
## 108	Hunter Michael	19	Eastview Institute	177	North America
## 109	Hunter Michael	19	Eastview Institute	177	North America

## 110	Hunter Michael	19	Eastview Institute	177	North America
## 111	Hurd Joshua	30	Eastview Academy	185	Asia
## 112	Hurd Joshua	30	Eastview Academy	185	Asia
## 113	Hurd Joshua	30	Eastview Academy	185	Asia
## 114	Hurd Joshua	30	Eastview Academy	185	Asia
## 115	Hurd Joshua	30	Eastview Academy	185	Asia
## 116	Johnson Jeremy	18	Coral Coast School	166	Antarctica
## 117	Johnson Jeremy	18	Coral Coast School	166	Antarctica
## 118	Johnson Jeremy	18	Coral Coast School	166	Antarctica
## 119	Johnson Jeremy	18	Coral Coast School	166	Antarctica
## 120	Johnson Jeremy	18	Coral Coast School	166	Antarctica
## 121	Kohls Trent	29	Ravenwood Academy	170	South America
## 122	Kohls Trent	29	Ravenwood Academy	170	South America
## 123	Kohls Trent	29	Ravenwood Academy	170	South America
## 124	Kohls Trent	29	Ravenwood Academy	170	South America
## 125	Kohls Trent	29	Ravenwood Academy	170	South America
## 126	Le Charles	20	Green Meadows High	169	North America
## 127	Le Charles	20	Green Meadows High	169	North America
## 128	Le Charles	20	Green Meadows High	169	North America
## 129	Le Charles	20	Green Meadows High	169	North America
## 130	Le Charles	20	Green Meadows High	169	North America
## 131	Lee Randon	26	Oak Hills School	167	Asia
## 132	Lee Randon	26	Oak Hills School	167	Asia
## 133	Lee Randon	26	Oak Hills School	167	Asia
## 134	Lee Randon	26	Oak Hills School	167	Asia
## 135	Lee Randon	26	Oak Hills School	167	Asia
## 136	Leming Kayle	27	Clearwater High	166	Asia
## 137	Leming Kayle	27	Clearwater High	166	Asia
## 138	Leming Kayle	27	Clearwater High	166	Asia
## 139	Leming Kayle	27	Clearwater High	166	Asia
## 140	Leming Kayle	27	Clearwater High	166	Asia
## 141	Liu William	17	Hercules Institute	179	Antarctica
## 142	Liu William	17	Hercules Institute	179	Antarctica
## 143	Liu William	17	Hercules Institute	179	Antarctica
## 144	Liu William	17	Hercules Institute	179	Antarctica
## 145	Liu William	17	Hercules Institute	179	Antarctica
## 146	Livitz Dane	33	Eastview Academy	181	North America
## 147	Livitz Dane	33	Eastview Academy	181	North America
## 148	Livitz Dane	33	Eastview Academy	181	North America
## 149	Livitz Dane	33	Eastview Academy	181	North America
## 150	Livitz Dane	33	Eastview Academy	181	North America
## 151	Mares-Toledo Angel	21	Coral Coast University	164	North America
## 152	Mares-Toledo Angel	21	Coral Coast University	164	North America
## 153	Mares-Toledo Angel	21	Coral Coast University	164	North America
## 154	Mares-Toledo Angel	21	Coral Coast University	164	North America
## 155	Mares-Toledo Angel	21	Coral Coast University	164	North America
## 156	Martin Dustin	20	Eastview Institute	168	Australia
## 157	Martin Dustin	20	Eastview Institute	168	Australia
## 158	Martin Dustin	20	Eastview Institute	168	Australia
## 159	Martin Dustin	20	Eastview Institute	168	Australia
## 160	Martin Dustin	20	Eastview Institute	168	Australia
## 161	Martinez Jesus	34	Hercules High	174	South America
## 162	Martinez Jesus	34	Hercules High	174	South America
## 163	Martinez Jesus	34	Hercules High	174	South America

## 164	Martinez Jesus	34	Hercules High	174	South America
## 165	Martinez Jesus	34	Hercules High	174	South America
## 166	Mcconnaughhay Johnny	31	Eastview Institute	160	North America
## 167	Mcconnaughhay Johnny	31	Eastview Institute	160	North America
## 168	Mcconnaughhay Johnny	31	Eastview Institute	160	North America
## 169	Mcconnaughhay Johnny	31	Eastview Institute	160	North America
## 170	Mcconnaughhay Johnny	31	Eastview Institute	160	North America
## 171	Mims Kevin	26	Central Valley School	178	South America
## 172	Mims Kevin	26	Central Valley School	178	South America
## 173	Mims Kevin	26	Central Valley School	178	South America
## 174	Mims Kevin	26	Central Valley School	178	South America
## 175	Mims Kevin	26	Central Valley School	178	South America
## 176	Murillo Steven	31	Ravenwood College	169	Antarctica
## 177	Murillo Steven	31	Ravenwood College	169	Antarctica
## 178	Murillo Steven	31	Ravenwood College	169	Antarctica
## 179	Murillo Steven	31	Ravenwood College	169	Antarctica
## 180	Murillo Steven	31	Ravenwood College	169	Antarctica
## 181	Murray Chance	33	Coral Coast School	176	Antarctica
## 182	Murray Chance	33	Coral Coast School	176	Antarctica
## 183	Murray Chance	33	Coral Coast School	176	Antarctica
## 184	Murray Chance	33	Coral Coast School	176	Antarctica
## 185	Murray Chance	33	Coral Coast School	176	Antarctica
## 186	Park Alexander	31	Central Valley High	180	Africa
## 187	Park Alexander	31	Central Valley High	180	Africa
## 188	Park Alexander	31	Central Valley High	180	Africa
## 189	Park Alexander	31	Central Valley High	180	Africa
## 190	Park Alexander	31	Central Valley High	180	Africa
## 191	Perez Robert	32	Pleasant Hill Institute	178	Africa
## 192	Perez Robert	32	Pleasant Hill Institute	178	Africa
## 193	Perez Robert	32	Pleasant Hill Institute	178	Africa
## 194	Perez Robert	32	Pleasant Hill Institute	178	Africa
## 195	Perez Robert	32	Pleasant Hill Institute	178	Africa
## 196	Perry Deven	32	Sacred Heart University	176	Europe
## 197	Perry Deven	32	Sacred Heart University	176	Europe
## 198	Perry Deven	32	Sacred Heart University	176	Europe
## 199	Perry Deven	32	Sacred Heart University	176	Europe
## 200	Perry Deven	32	Sacred Heart University	176	Europe
## 201	Pillow Jared	29	Ravenwood University	166	Antarctica
## 202	Pillow Jared	29	Ravenwood University	166	Antarctica
## 203	Pillow Jared	29	Ravenwood University	166	Antarctica
## 204	Pillow Jared	29	Ravenwood University	166	Antarctica
## 205	Pillow Jared	29	Ravenwood University	166	Antarctica
## 206	Rhoadarmer Joshua	21	Coral Coast High	184	North America
## 207	Rhoadarmer Joshua	21	Coral Coast High	184	North America
## 208	Rhoadarmer Joshua	21	Coral Coast High	184	North America
## 209	Rhoadarmer Joshua	21	Coral Coast High	184	North America
## 210	Rhoadarmer Joshua	21	Coral Coast High	184	North America
## 211	Salinas Travyone	22	Savanna High	181	Africa
## 212	Salinas Travyone	22	Savanna High	181	Africa
## 213	Salinas Travyone	22	Savanna High	181	Africa
## 214	Salinas Travyone	22	Savanna High	181	Africa
## 215	Salinas Travyone	22	Savanna High	181	Africa
## 216	Schubert Brendan	19	Spring Gardens School	177	Europe
## 217	Schubert Brendan	19	Spring Gardens School	177	Europe

## 218	Schubert Brendan	19	Spring Gardens School	177	Europe
## 219	Schubert Brendan	19	Spring Gardens School	177	Europe
## 220	Schubert Brendan	19	Spring Gardens School	177	Europe
## 221	Smith Adonias	26	Sunny Hills Academy	183	Antarctica
## 222	Smith Adonias	26	Sunny Hills Academy	183	Antarctica
## 223	Smith Adonias	26	Sunny Hills Academy	183	Antarctica
## 224	Smith Adonias	26	Sunny Hills Academy	183	Antarctica
## 225	Smith Adonias	26	Sunny Hills Academy	183	Antarctica
## 226	Stegmayer Bryan	32	Eastview High	175	South America
## 227	Stegmayer Bryan	32	Eastview High	175	South America
## 228	Stegmayer Bryan	32	Eastview High	175	South America
## 229	Stegmayer Bryan	32	Eastview High	175	South America
## 230	Stegmayer Bryan	32	Eastview High	175	South America
## 231	Torrance Seth	24	Savanna Academy	164	Antarctica
## 232	Torrance Seth	24	Savanna Academy	164	Antarctica
## 233	Torrance Seth	24	Savanna Academy	164	Antarctica
## 234	Torrance Seth	24	Savanna Academy	164	Antarctica
## 235	Torrance Seth	24	Savanna Academy	164	Antarctica
## 236	Uyemura Matthew	28	Monarch College	179	North America
## 237	Uyemura Matthew	28	Monarch College	179	North America
## 238	Uyemura Matthew	28	Monarch College	179	North America
## 239	Uyemura Matthew	28	Monarch College	179	North America
## 240	Uyemura Matthew	28	Monarch College	179	North America
## 241	Vo Enkhtsogt	18	Central Valley Institute	170	Australia
## 242	Vo Enkhtsogt	18	Central Valley Institute	170	Australia
## 243	Vo Enkhtsogt	18	Central Valley Institute	170	Australia
## 244	Vo Enkhtsogt	18	Central Valley Institute	170	Australia
## 245	Vo Enkhtsogt	18	Central Valley Institute	170	Australia
## 246	Ware Taju	25	Hercules School	162	North America
## 247	Ware Taju	25	Hercules School	162	North America
## 248	Ware Taju	25	Hercules School	162	North America
## 249	Ware Taju	25	Hercules School	162	North America
## 250	Ware Taju	25	Hercules School	162	North America
##	Year	Stats	Point		
## 1	2008	interceptions	53		
## 2	2008	dribbles	88		
## 3	2008	tackles	71		
## 4	2008	passing	74		
## 5	2008	shots	57		
## 6	2004	passing	78		
## 7	2004	interceptions	100		
## 8	2004	tackles	66		
## 9	2004	shots	58		
## 10	2004	dribbles	63		
## 11	2001	passing	100		
## 12	2001	interceptions	85		
## 13	2001	dribbles	55		
## 14	2001	shots	68		
## 15	2001	tackles	95		
## 16	2014	passing	82		
## 17	2014	dribbles	90		
## 18	2014	tackles	81		
## 19	2014	interceptions	90		
## 20	2014	shots	50		

##	21	2013	tackles	98
##	22	2013	passing	96
##	23	2013	interceptions	82
##	24	2013	shots	66
##	25	2013	dribbles	85
##	26	2017	interceptions	52
##	27	2017	tackles	65
##	28	2017	shots	79
##	29	2017	passing	84
##	30	2017	dribbles	100
##	31	2011	dribbles	77
##	32	2011	tackles	93
##	33	2011	interceptions	65
##	34	2011	shots	93
##	35	2011	passing	77
##	36	2000	shots	86
##	37	2000	interceptions	85
##	38	2000	dribbles	83
##	39	2000	tackles	85
##	40	2000	passing	63
##	41	2016	dribbles	100
##	42	2016	passing	70
##	43	2016	interceptions	61
##	44	2016	tackles	82
##	45	2016	shots	71
##	46	2022	interceptions	79
##	47	2022	dribbles	100
##	48	2022	tackles	57
##	49	2022	passing	58
##	50	2022	shots	95
##	51	2022	shots	59
##	52	2022	tackles	52
##	53	2022	passing	78
##	54	2022	dribbles	60
##	55	2022	interceptions	59
##	56	2010	dribbles	90
##	57	2010	tackles	60
##	58	2010	passing	57
##	59	2010	interceptions	62
##	60	2010	shots	60
##	61	2018	shots	85
##	62	2018	passing	51
##	63	2018	tackles	62
##	64	2018	dribbles	52
##	65	2018	interceptions	66
##	66	2006	tackles	87
##	67	2006	interceptions	54
##	68	2006	shots	99
##	69	2006	dribbles	93
##	70	2006	passing	84
##	71	2013	tackles	82
##	72	2013	passing	68
##	73	2013	dribbles	80
##	74	2013	shots	97

## 75	2013	interceptions	61
## 76	2015	passing	96
## 77	2015	tackles	55
## 78	2015	interceptions	67
## 79	2015	shots	61
## 80	2015	dribbles	63
## 81	2005	dribbles	84
## 82	2005	tackles	61
## 83	2005	interceptions	97
## 84	2005	shots	50
## 85	2005	passing	57
## 86	2012	tackles	56
## 87	2012	interceptions	68
## 88	2012	passing	58
## 89	2012	shots	57
## 90	2012	dribbles	69
## 91	2001	shots	81
## 92	2001	tackles	59
## 93	2001	interceptions	63
## 94	2001	passing	86
## 95	2001	dribbles	92
## 96	2012	dribbles	82
## 97	2012	tackles	95
## 98	2012	interceptions	89
## 99	2012	passing	99
## 100	2012	shots	63
## 101	2011	shots	55
## 102	2011	passing	83
## 103	2011	dribbles	82
## 104	2011	interceptions	98
## 105	2011	tackles	96
## 106	2007	shots	93
## 107	2007	passing	53
## 108	2007	dribbles	88
## 109	2007	tackles	87
## 110	2007	interceptions	81
## 111	2013	passing	84
## 112	2013	interceptions	89
## 113	2013	shots	87
## 114	2013	dribbles	76
## 115	2013	tackles	54
## 116	2010	passing	62
## 117	2010	dribbles	94
## 118	2010	tackles	100
## 119	2010	shots	86
## 120	2010	interceptions	86
## 121	2020	passing	65
## 122	2020	shots	92
## 123	2020	interceptions	97
## 124	2020	tackles	88
## 125	2020	dribbles	64
## 126	2003	passing	93
## 127	2003	dribbles	82
## 128	2003	shots	58

## 129	2003	interceptions	51
## 130	2003	tackles	65
## 131	2012	tackles	99
## 132	2012	interceptions	62
## 133	2012	shots	78
## 134	2012	passing	55
## 135	2012	dribbles	84
## 136	2008	shots	72
## 137	2008	passing	50
## 138	2008	dribbles	94
## 139	2008	tackles	53
## 140	2008	interceptions	90
## 141	2015	tackles	60
## 142	2015	interceptions	95
## 143	2015	dribbles	57
## 144	2015	passing	86
## 145	2015	shots	85
## 146	2000	dribbles	61
## 147	2000	interceptions	99
## 148	2000	passing	69
## 149	2000	tackles	93
## 150	2000	shots	62
## 151	2007	interceptions	66
## 152	2007	dribbles	89
## 153	2007	passing	71
## 154	2007	shots	79
## 155	2007	tackles	78
## 156	2021	tackles	98
## 157	2021	dribbles	66
## 158	2021	interceptions	55
## 159	2021	passing	94
## 160	2021	shots	53
## 161	2013	passing	79
## 162	2013	dribbles	88
## 163	2013	interceptions	80
## 164	2013	tackles	59
## 165	2013	shots	75
## 166	2008	interceptions	80
## 167	2008	dribbles	82
## 168	2008	passing	93
## 169	2008	shots	63
## 170	2008	tackles	73
## 171	2015	shots	84
## 172	2015	passing	97
## 173	2015	dribbles	56
## 174	2015	tackles	71
## 175	2015	interceptions	99
## 176	2007	dribbles	51
## 177	2007	interceptions	61
## 178	2007	tackles	61
## 179	2007	passing	68
## 180	2007	shots	94
## 181	2013	passing	58
## 182	2013	dribbles	64

## 183	2013	interceptions	54
## 184	2013	shots	69
## 185	2013	tackles	61
## 186	2017	dribbles	70
## 187	2017	passing	65
## 188	2017	tackles	96
## 189	2017	shots	58
## 190	2017	interceptions	87
## 191	2019	passing	58
## 192	2019	dribbles	95
## 193	2019	interceptions	87
## 194	2019	shots	72
## 195	2019	tackles	89
## 196	2022	tackles	51
## 197	2022	interceptions	76
## 198	2022	dribbles	60
## 199	2022	shots	77
## 200	2022	passing	83
## 201	2001	passing	61
## 202	2001	dribbles	99
## 203	2001	interceptions	82
## 204	2001	shots	84
## 205	2001	tackles	69
## 206	2010	dribbles	98
## 207	2010	passing	62
## 208	2010	interceptions	53
## 209	2010	shots	96
## 210	2010	tackles	75
## 211	2019	tackles	83
## 212	2019	passing	74
## 213	2019	shots	56
## 214	2019	interceptions	91
## 215	2019	dribbles	98
## 216	2021	dribbles	99
## 217	2021	tackles	75
## 218	2021	interceptions	98
## 219	2021	shots	96
## 220	2021	passing	58
## 221	2011	interceptions	88
## 222	2011	tackles	98
## 223	2011	shots	60
## 224	2011	dribbles	65
## 225	2011	passing	73
## 226	2015	passing	96
## 227	2015	interceptions	92
## 228	2015	dribbles	59
## 229	2015	tackles	95
## 230	2015	shots	96
## 231	2015	interceptions	88
## 232	2015	dribbles	74
## 233	2015	tackles	89
## 234	2015	passing	67
## 235	2015	shots	65
## 236	2005	passing	51

```
## 237 2005      dribbles    59
## 238 2005      shots      88
## 239 2005 interceptions    70
## 240 2005      tackles    73
## 241 2019      dribbles    51
## 242 2019      tackles    61
## 243 2019 interceptions    82
## 244 2019      shots      72
## 245 2019      passing    56
## 246 2017      passing    64
## 247 2017      tackles    97
## 248 2017 interceptions    97
## 249 2017      shots      99
## 250 2017      dribbles    92
```

21. Gunakan data 20 dan buat kolom dengan nama Mean_Stats yang berisikan rata-rata dari dribbles, interceptions, passing, shots, tackles sehingga tabel dataframe berisikan Name, Age, School, Height, Continent, Year, Mean_Stats! **(5 poin)**

```
# new_df <- ___[, c(1:___)]
# new_df$___ <- rowMeans(___[, c(7:___)])

# new_df
```

22. Buatlah diagram bar dengan menggunakan data pada nomor 21,
- x adalah Nama
 - y adalah Mean_Stats
 - warna menggunakan Mean_Stats

seperti contoh gambar 5! **(10 poin)**

```
# df2$Year = as.factor(df2$Year)

# bar_dg2 <- ___ %>%
#   ggplot(aes(x = ___, y = ___, fill = ___)) +
#   ___(stat = "identity") +
#   ___() +
#   labs(
#     x = "Nama",
#     y = "Rata - Rata Keahlian",
#     title = "Rata - Rata Keahlian Pemain Sepakbola",
#   )

# bar_dg2
```

23. Gabungkan data community dan data wide player yang memiliki identitas yang sama namun hanya tampilkan data dari wide player! **(5 poin)**

NB : menggunakan 1 baris perintah

```
data_gabungan %>% select(Name, Year, Stats, Point)
```

##	Name	Year	Stats	Point
## 1	al-Burki Neeshaan	2008	interceptions	53
## 2	al-Burki Neeshaan	2008	dribbles	88
## 3	al-Burki Neeshaan	2008	tackles	71
## 4	al-Burki Neeshaan	2008	passing	74
## 5	al-Burki Neeshaan	2008	shots	57
## 6	al-Nazar Mukarram	2004	passing	78
## 7	al-Nazar Mukarram	2004	interceptions	100
## 8	al-Nazar Mukarram	2004	tackles	66
## 9	al-Nazar Mukarram	2004	shots	58
## 10	al-Nazar Mukarram	2004	dribbles	63
## 11	al-Raad Aayid	2001	passing	100
## 12	al-Raad Aayid	2001	interceptions	85
## 13	al-Raad Aayid	2001	dribbles	55
## 14	al-Raad Aayid	2001	shots	68
## 15	al-Raad Aayid	2001	tackles	95
## 16	al-Salahuddin Daifallah	2014	passing	82
## 17	al-Salahuddin Daifallah	2014	dribbles	90
## 18	al-Salahuddin Daifallah	2014	tackles	81
## 19	al-Salahuddin Daifallah	2014	interceptions	90
## 20	al-Salahuddin Daifallah	2014	shots	50
## 21	al-Shaker Naadir	2013	tackles	98
## 22	al-Shaker Naadir	2013	passing	96
## 23	al-Shaker Naadir	2013	interceptions	82
## 24	al-Shaker Naadir	2013	shots	66
## 25	al-Shaker Naadir	2013	dribbles	85
## 26	Braa Jackson	2017	interceptions	52
## 27	Braa Jackson	2017	tackles	65
## 28	Braa Jackson	2017	shots	79
## 29	Braa Jackson	2017	passing	84
## 30	Braa Jackson	2017	dribbles	100
## 31	Cervantes Sergio	2011	dribbles	77
## 32	Cervantes Sergio	2011	tackles	93
## 33	Cervantes Sergio	2011	interceptions	65
## 34	Cervantes Sergio	2011	shots	93
## 35	Cervantes Sergio	2011	passing	77
## 36	Daniels Saleh	2000	shots	86
## 37	Daniels Saleh	2000	interceptions	85
## 38	Daniels Saleh	2000	dribbles	83
## 39	Daniels Saleh	2000	tackles	85
## 40	Daniels Saleh	2000	passing	63
## 41	Danner Gabriel	2016	dribbles	100
## 42	Danner Gabriel	2016	passing	70
## 43	Danner Gabriel	2016	interceptions	61
## 44	Danner Gabriel	2016	tackles	82
## 45	Danner Gabriel	2016	shots	71
## 46	Davis Tracy	2022	interceptions	79
## 47	Davis Tracy	2022	dribbles	100
## 48	Davis Tracy	2022	tackles	57
## 49	Davis Tracy	2022	passing	58
## 50	Davis Tracy	2022	shots	95

## 51	Dew-Merriex Tyrae 2022	shots	59
## 52	Dew-Merriex Tyrae 2022	tackles	52
## 53	Dew-Merriex Tyrae 2022	passing	78
## 54	Dew-Merriex Tyrae 2022	dribbles	60
## 55	Dew-Merriex Tyrae 2022	interceptions	59
## 56	Duong Austin 2010	dribbles	90
## 57	Duong Austin 2010	tackles	60
## 58	Duong Austin 2010	passing	57
## 59	Duong Austin 2010	interceptions	62
## 60	Duong Austin 2010	shots	60
## 61	Einsel Ryan 2018	shots	85
## 62	Einsel Ryan 2018	passing	51
## 63	Einsel Ryan 2018	tackles	62
## 64	Einsel Ryan 2018	dribbles	52
## 65	Einsel Ryan 2018	interceptions	66
## 66	el-Haque Aiman 2006	tackles	87
## 67	el-Haque Aiman 2006	interceptions	54
## 68	el-Haque Aiman 2006	shots	99
## 69	el-Haque Aiman 2006	dribbles	93
## 70	el-Haque Aiman 2006	passing	84
## 71	el-Mattar Haarith 2013	tackles	82
## 72	el-Mattar Haarith 2013	passing	68
## 73	el-Mattar Haarith 2013	dribbles	80
## 74	el-Mattar Haarith 2013	shots	97
## 75	el-Mattar Haarith 2013	interceptions	61
## 76	el-Saeed Mubarak 2015	passing	96
## 77	el-Saeed Mubarak 2015	tackles	55
## 78	el-Saeed Mubarak 2015	interceptions	67
## 79	el-Saeed Mubarak 2015	shots	61
## 80	el-Saeed Mubarak 2015	dribbles	63
## 81	el-Samra Amaan 2005	dribbles	84
## 82	el-Samra Amaan 2005	tackles	61
## 83	el-Samra Amaan 2005	interceptions	97
## 84	el-Samra Amaan 2005	shots	50
## 85	el-Samra Amaan 2005	passing	57
## 86	Emerson Tyler 2012	tackles	56
## 87	Emerson Tyler 2012	interceptions	68
## 88	Emerson Tyler 2012	passing	58
## 89	Emerson Tyler 2012	shots	57
## 90	Emerson Tyler 2012	dribbles	69
## 91	Gilbert-Mayes Savon 2001	shots	81
## 92	Gilbert-Mayes Savon 2001	tackles	59
## 93	Gilbert-Mayes Savon 2001	interceptions	63
## 94	Gilbert-Mayes Savon 2001	passing	86
## 95	Gilbert-Mayes Savon 2001	dribbles	92
## 96	Gonzales Timothy 2012	dribbles	82
## 97	Gonzales Timothy 2012	tackles	95
## 98	Gonzales Timothy 2012	interceptions	89
## 99	Gonzales Timothy 2012	passing	99
## 100	Gonzales Timothy 2012	shots	63
## 101	Hilb Tristan 2011	shots	55
## 102	Hilb Tristan 2011	passing	83
## 103	Hilb Tristan 2011	dribbles	82
## 104	Hilb Tristan 2011	interceptions	98

## 105	Hilb Tristan	2011	tackles	96
## 106	Hunter Michael	2007	shots	93
## 107	Hunter Michael	2007	passing	53
## 108	Hunter Michael	2007	dribbles	88
## 109	Hunter Michael	2007	tackles	87
## 110	Hunter Michael	2007	interceptions	81
## 111	Hurd Joshua	2013	passing	84
## 112	Hurd Joshua	2013	interceptions	89
## 113	Hurd Joshua	2013	shots	87
## 114	Hurd Joshua	2013	dribbles	76
## 115	Hurd Joshua	2013	tackles	54
## 116	Johnson Jeremy	2010	passing	62
## 117	Johnson Jeremy	2010	dribbles	94
## 118	Johnson Jeremy	2010	tackles	100
## 119	Johnson Jeremy	2010	shots	86
## 120	Johnson Jeremy	2010	interceptions	86
## 121	Kohls Trent	2020	passing	65
## 122	Kohls Trent	2020	shots	92
## 123	Kohls Trent	2020	interceptions	97
## 124	Kohls Trent	2020	tackles	88
## 125	Kohls Trent	2020	dribbles	64
## 126	Le Charles	2003	passing	93
## 127	Le Charles	2003	dribbles	82
## 128	Le Charles	2003	shots	58
## 129	Le Charles	2003	interceptions	51
## 130	Le Charles	2003	tackles	65
## 131	Lee Randon	2012	tackles	99
## 132	Lee Randon	2012	interceptions	62
## 133	Lee Randon	2012	shots	78
## 134	Lee Randon	2012	passing	55
## 135	Lee Randon	2012	dribbles	84
## 136	Leming Kayle	2008	shots	72
## 137	Leming Kayle	2008	passing	50
## 138	Leming Kayle	2008	dribbles	94
## 139	Leming Kayle	2008	tackles	53
## 140	Leming Kayle	2008	interceptions	90
## 141	Liu William	2015	tackles	60
## 142	Liu William	2015	interceptions	95
## 143	Liu William	2015	dribbles	57
## 144	Liu William	2015	passing	86
## 145	Liu William	2015	shots	85
## 146	Livitz Dane	2000	dribbles	61
## 147	Livitz Dane	2000	interceptions	99
## 148	Livitz Dane	2000	passing	69
## 149	Livitz Dane	2000	tackles	93
## 150	Livitz Dane	2000	shots	62
## 151	Mares-Toledo Angel	2007	interceptions	66
## 152	Mares-Toledo Angel	2007	dribbles	89
## 153	Mares-Toledo Angel	2007	passing	71
## 154	Mares-Toledo Angel	2007	shots	79
## 155	Mares-Toledo Angel	2007	tackles	78
## 156	Martin Dustin	2021	tackles	98
## 157	Martin Dustin	2021	dribbles	66
## 158	Martin Dustin	2021	interceptions	55

## 159	Martin Dustin	2021	passing	94
## 160	Martin Dustin	2021	shots	53
## 161	Martinez Jesus	2013	passing	79
## 162	Martinez Jesus	2013	dribbles	88
## 163	Martinez Jesus	2013	interceptions	80
## 164	Martinez Jesus	2013	tackles	59
## 165	Martinez Jesus	2013	shots	75
## 166	Mcconnaughhay Johnny	2008	interceptions	80
## 167	Mcconnaughhay Johnny	2008	dribbles	82
## 168	Mcconnaughhay Johnny	2008	passing	93
## 169	Mcconnaughhay Johnny	2008	shots	63
## 170	Mcconnaughhay Johnny	2008	tackles	73
## 171	Mims Kevin	2015	shots	84
## 172	Mims Kevin	2015	passing	97
## 173	Mims Kevin	2015	dribbles	56
## 174	Mims Kevin	2015	tackles	71
## 175	Mims Kevin	2015	interceptions	99
## 176	Murillo Steven	2007	dribbles	51
## 177	Murillo Steven	2007	interceptions	61
## 178	Murillo Steven	2007	tackles	61
## 179	Murillo Steven	2007	passing	68
## 180	Murillo Steven	2007	shots	94
## 181	Murray Chance	2013	passing	58
## 182	Murray Chance	2013	dribbles	64
## 183	Murray Chance	2013	interceptions	54
## 184	Murray Chance	2013	shots	69
## 185	Murray Chance	2013	tackles	61
## 186	Park Alexander	2017	dribbles	70
## 187	Park Alexander	2017	passing	65
## 188	Park Alexander	2017	tackles	96
## 189	Park Alexander	2017	shots	58
## 190	Park Alexander	2017	interceptions	87
## 191	Perez Robert	2019	passing	58
## 192	Perez Robert	2019	dribbles	95
## 193	Perez Robert	2019	interceptions	87
## 194	Perez Robert	2019	shots	72
## 195	Perez Robert	2019	tackles	89
## 196	Perry Deven	2022	tackles	51
## 197	Perry Deven	2022	interceptions	76
## 198	Perry Deven	2022	dribbles	60
## 199	Perry Deven	2022	shots	77
## 200	Perry Deven	2022	passing	83
## 201	Pillow Jared	2001	passing	61
## 202	Pillow Jared	2001	dribbles	99
## 203	Pillow Jared	2001	interceptions	82
## 204	Pillow Jared	2001	shots	84
## 205	Pillow Jared	2001	tackles	69
## 206	Rhoadarmer Joshua	2010	dribbles	98
## 207	Rhoadarmer Joshua	2010	passing	62
## 208	Rhoadarmer Joshua	2010	interceptions	53
## 209	Rhoadarmer Joshua	2010	shots	96
## 210	Rhoadarmer Joshua	2010	tackles	75
## 211	Salinas Travvone	2019	tackles	83
## 212	Salinas Travvone	2019	passing	74

## 213	Salinas Travyone	2019	shots	56
## 214	Salinas Travyone	2019	interceptions	91
## 215	Salinas Travyone	2019	dribbles	98
## 216	Schubert Brendan	2021	dribbles	99
## 217	Schubert Brendan	2021	tackles	75
## 218	Schubert Brendan	2021	interceptions	98
## 219	Schubert Brendan	2021	shots	96
## 220	Schubert Brendan	2021	passing	58
## 221	Smith Adonias	2011	interceptions	88
## 222	Smith Adonias	2011	tackles	98
## 223	Smith Adonias	2011	shots	60
## 224	Smith Adonias	2011	dribbles	65
## 225	Smith Adonias	2011	passing	73
## 226	Stegmayer Bryan	2015	passing	96
## 227	Stegmayer Bryan	2015	interceptions	92
## 228	Stegmayer Bryan	2015	dribbles	59
## 229	Stegmayer Bryan	2015	tackles	95
## 230	Stegmayer Bryan	2015	shots	96
## 231	Torrance Seth	2015	interceptions	88
## 232	Torrance Seth	2015	dribbles	74
## 233	Torrance Seth	2015	tackles	89
## 234	Torrance Seth	2015	passing	67
## 235	Torrance Seth	2015	shots	65
## 236	Uyemura Matthew	2005	passing	51
## 237	Uyemura Matthew	2005	dribbles	59
## 238	Uyemura Matthew	2005	shots	88
## 239	Uyemura Matthew	2005	interceptions	70
## 240	Uyemura Matthew	2005	tackles	73
## 241	Vo Enkhtsogt	2019	dribbles	51
## 242	Vo Enkhtsogt	2019	tackles	61
## 243	Vo Enkhtsogt	2019	interceptions	82
## 244	Vo Enkhtsogt	2019	shots	72
## 245	Vo Enkhtsogt	2019	passing	56
## 246	Ware Taju	2017	passing	64
## 247	Ware Taju	2017	tackles	97
## 248	Ware Taju	2017	interceptions	97
## 249	Ware Taju	2017	shots	99
## 250	Ware Taju	2017	dribbles	92

24. Gabungkan data community dan data wide player namun bukan data yang beririsan dan hanya tampilkan data dari community! (5 poin)

NB : menggunakan 1 baris perintah

```
data_gabungan %>% select(Name, Age, Height, School, Continent)
```

##	Name	Age	Height	School	Continent
## 1	al-Burki Neeshaan	18	167	Coral Coast University	Asia
## 2	al-Burki Neeshaan	18	167	Coral Coast University	Asia
## 3	al-Burki Neeshaan	18	167	Coral Coast University	Asia
## 4	al-Burki Neeshaan	18	167	Coral Coast University	Asia
## 5	al-Burki Neeshaan	18	167	Coral Coast University	Asia
## 6	al-Nazar Mukarram	26	160	Seal Gulch University	Australia

## 7	al-Nazar Mukarram	26	160	Seal Gulch University	Australia
## 8	al-Nazar Mukarram	26	160	Seal Gulch University	Australia
## 9	al-Nazar Mukarram	26	160	Seal Gulch University	Australia
## 10	al-Nazar Mukarram	26	160	Seal Gulch University	Australia
## 11	al-Raad Aayid	18	182	Savanna Institute	Africa
## 12	al-Raad Aayid	18	182	Savanna Institute	Africa
## 13	al-Raad Aayid	18	182	Savanna Institute	Africa
## 14	al-Raad Aayid	18	182	Savanna Institute	Africa
## 15	al-Raad Aayid	18	182	Savanna Institute	Africa
## 16	al-Salahuddin Daifallah	23	175	Monarch University	Europe
## 17	al-Salahuddin Daifallah	23	175	Monarch University	Europe
## 18	al-Salahuddin Daifallah	23	175	Monarch University	Europe
## 19	al-Salahuddin Daifallah	23	175	Monarch University	Europe
## 20	al-Salahuddin Daifallah	23	175	Monarch University	Europe
## 21	al-Shaker Naadir	25	165	Clearwater High	South America
## 22	al-Shaker Naadir	25	165	Clearwater High	South America
## 23	al-Shaker Naadir	25	165	Clearwater High	South America
## 24	al-Shaker Naadir	25	165	Clearwater High	South America
## 25	al-Shaker Naadir	25	165	Clearwater High	South America
## 26	Braa Jackson	23	182	Central Valley College	North America
## 27	Braa Jackson	23	182	Central Valley College	North America
## 28	Braa Jackson	23	182	Central Valley College	North America
## 29	Braa Jackson	23	182	Central Valley College	North America
## 30	Braa Jackson	23	182	Central Valley College	North America
## 31	Cervantes Sergio	27	160	Ravenwood High	Australia
## 32	Cervantes Sergio	27	160	Ravenwood High	Australia
## 33	Cervantes Sergio	27	160	Ravenwood High	Australia
## 34	Cervantes Sergio	27	160	Ravenwood High	Australia
## 35	Cervantes Sergio	27	160	Ravenwood High	Australia
## 36	Daniels Saleh	32	184	Stonewall Academy	Africa
## 37	Daniels Saleh	32	184	Stonewall Academy	Africa
## 38	Daniels Saleh	32	184	Stonewall Academy	Africa
## 39	Daniels Saleh	32	184	Stonewall Academy	Africa
## 40	Daniels Saleh	32	184	Stonewall Academy	Africa
## 41	Danner Gabriel	17	160	Hercules Institute	Antarctica
## 42	Danner Gabriel	17	160	Hercules Institute	Antarctica
## 43	Danner Gabriel	17	160	Hercules Institute	Antarctica
## 44	Danner Gabriel	17	160	Hercules Institute	Antarctica
## 45	Danner Gabriel	17	160	Hercules Institute	Antarctica
## 46	Davis Tracy	25	174	Sunny Hills College	Australia
## 47	Davis Tracy	25	174	Sunny Hills College	Australia
## 48	Davis Tracy	25	174	Sunny Hills College	Australia
## 49	Davis Tracy	25	174	Sunny Hills College	Australia
## 50	Davis Tracy	25	174	Sunny Hills College	Australia
## 51	Dew-Merriex Tyrae	28	175	Clearwater University	North America
## 52	Dew-Merriex Tyrae	28	175	Clearwater University	North America
## 53	Dew-Merriex Tyrae	28	175	Clearwater University	North America
## 54	Dew-Merriex Tyrae	28	175	Clearwater University	North America
## 55	Dew-Merriex Tyrae	28	175	Clearwater University	North America
## 56	Duong Austin	18	175	Pleasant Hill Academy	South America
## 57	Duong Austin	18	175	Pleasant Hill Academy	South America
## 58	Duong Austin	18	175	Pleasant Hill Academy	South America
## 59	Duong Austin	18	175	Pleasant Hill Academy	South America
## 60	Duong Austin	18	175	Pleasant Hill Academy	South America

## 61	Einsel Ryan	28	177	Stonewall High	Australia
## 62	Einsel Ryan	28	177	Stonewall High	Australia
## 63	Einsel Ryan	28	177	Stonewall High	Australia
## 64	Einsel Ryan	28	177	Stonewall High	Australia
## 65	Einsel Ryan	28	177	Stonewall High	Australia
## 66	el-Haque Aiman	17	166	Green Meadows Institute	South America
## 67	el-Haque Aiman	17	166	Green Meadows Institute	South America
## 68	el-Haque Aiman	17	166	Green Meadows Institute	South America
## 69	el-Haque Aiman	17	166	Green Meadows Institute	South America
## 70	el-Haque Aiman	17	166	Green Meadows Institute	South America
## 71	el-Mattar Haarith	35	177	Sacred Heart College	South America
## 72	el-Mattar Haarith	35	177	Sacred Heart College	South America
## 73	el-Mattar Haarith	35	177	Sacred Heart College	South America
## 74	el-Mattar Haarith	35	177	Sacred Heart College	South America
## 75	el-Mattar Haarith	35	177	Sacred Heart College	South America
## 76	el-Saeed Mubarak	22	179	Winterville University	Asia
## 77	el-Saeed Mubarak	22	179	Winterville University	Asia
## 78	el-Saeed Mubarak	22	179	Winterville University	Asia
## 79	el-Saeed Mubarak	22	179	Winterville University	Asia
## 80	el-Saeed Mubarak	22	179	Winterville University	Asia
## 81	el-Samra Amaan	33	183	Central Valley University	Africa
## 82	el-Samra Amaan	33	183	Central Valley University	Africa
## 83	el-Samra Amaan	33	183	Central Valley University	Africa
## 84	el-Samra Amaan	33	183	Central Valley University	Africa
## 85	el-Samra Amaan	33	183	Central Valley University	Africa
## 86	Emerson Tyler	17	167	Rutherford High	Asia
## 87	Emerson Tyler	17	167	Rutherford High	Asia
## 88	Emerson Tyler	17	167	Rutherford High	Asia
## 89	Emerson Tyler	17	167	Rutherford High	Asia
## 90	Emerson Tyler	17	167	Rutherford High	Asia
## 91	Gilbert-Mayes Savon	28	171	Eastview Institute	Africa
## 92	Gilbert-Mayes Savon	28	171	Eastview Institute	Africa
## 93	Gilbert-Mayes Savon	28	171	Eastview Institute	Africa
## 94	Gilbert-Mayes Savon	28	171	Eastview Institute	Africa
## 95	Gilbert-Mayes Savon	28	171	Eastview Institute	Africa
## 96	Gonzales Timothy	18	178	Eastview Academy	South America
## 97	Gonzales Timothy	18	178	Eastview Academy	South America
## 98	Gonzales Timothy	18	178	Eastview Academy	South America
## 99	Gonzales Timothy	18	178	Eastview Academy	South America
## 100	Gonzales Timothy	18	178	Eastview Academy	South America
## 101	Hilb Tristan	27	179	Winterville Academy	North America
## 102	Hilb Tristan	27	179	Winterville Academy	North America
## 103	Hilb Tristan	27	179	Winterville Academy	North America
## 104	Hilb Tristan	27	179	Winterville Academy	North America
## 105	Hilb Tristan	27	179	Winterville Academy	North America
## 106	Hunter Michael	19	177	Eastview Institute	North America
## 107	Hunter Michael	19	177	Eastview Institute	North America
## 108	Hunter Michael	19	177	Eastview Institute	North America
## 109	Hunter Michael	19	177	Eastview Institute	North America
## 110	Hunter Michael	19	177	Eastview Institute	North America
## 111	Hurd Joshua	30	185	Eastview Academy	Asia
## 112	Hurd Joshua	30	185	Eastview Academy	Asia
## 113	Hurd Joshua	30	185	Eastview Academy	Asia
## 114	Hurd Joshua	30	185	Eastview Academy	Asia

## 115	Hurd Joshua	30	185	Eastview Academy	Asia
## 116	Johnson Jeremy	18	166	Coral Coast School	Antarctica
## 117	Johnson Jeremy	18	166	Coral Coast School	Antarctica
## 118	Johnson Jeremy	18	166	Coral Coast School	Antarctica
## 119	Johnson Jeremy	18	166	Coral Coast School	Antarctica
## 120	Johnson Jeremy	18	166	Coral Coast School	Antarctica
## 121	Kohls Trent	29	170	Ravenwood Academy	South America
## 122	Kohls Trent	29	170	Ravenwood Academy	South America
## 123	Kohls Trent	29	170	Ravenwood Academy	South America
## 124	Kohls Trent	29	170	Ravenwood Academy	South America
## 125	Kohls Trent	29	170	Ravenwood Academy	South America
## 126	Le Charles	20	169	Green Meadows High	North America
## 127	Le Charles	20	169	Green Meadows High	North America
## 128	Le Charles	20	169	Green Meadows High	North America
## 129	Le Charles	20	169	Green Meadows High	North America
## 130	Le Charles	20	169	Green Meadows High	North America
## 131	Lee Randon	26	167	Oak Hills School	Asia
## 132	Lee Randon	26	167	Oak Hills School	Asia
## 133	Lee Randon	26	167	Oak Hills School	Asia
## 134	Lee Randon	26	167	Oak Hills School	Asia
## 135	Lee Randon	26	167	Oak Hills School	Asia
## 136	Leming Kayle	27	166	Clearwater High	Asia
## 137	Leming Kayle	27	166	Clearwater High	Asia
## 138	Leming Kayle	27	166	Clearwater High	Asia
## 139	Leming Kayle	27	166	Clearwater High	Asia
## 140	Leming Kayle	27	166	Clearwater High	Asia
## 141	Liu William	17	179	Hercules Institute	Antarctica
## 142	Liu William	17	179	Hercules Institute	Antarctica
## 143	Liu William	17	179	Hercules Institute	Antarctica
## 144	Liu William	17	179	Hercules Institute	Antarctica
## 145	Liu William	17	179	Hercules Institute	Antarctica
## 146	Livitz Dane	33	181	Eastview Academy	North America
## 147	Livitz Dane	33	181	Eastview Academy	North America
## 148	Livitz Dane	33	181	Eastview Academy	North America
## 149	Livitz Dane	33	181	Eastview Academy	North America
## 150	Livitz Dane	33	181	Eastview Academy	North America
## 151	Mares-Toledo Angel	21	164	Coral Coast University	North America
## 152	Mares-Toledo Angel	21	164	Coral Coast University	North America
## 153	Mares-Toledo Angel	21	164	Coral Coast University	North America
## 154	Mares-Toledo Angel	21	164	Coral Coast University	North America
## 155	Mares-Toledo Angel	21	164	Coral Coast University	North America
## 156	Martin Dustin	20	168	Eastview Institute	Australia
## 157	Martin Dustin	20	168	Eastview Institute	Australia
## 158	Martin Dustin	20	168	Eastview Institute	Australia
## 159	Martin Dustin	20	168	Eastview Institute	Australia
## 160	Martin Dustin	20	168	Eastview Institute	Australia
## 161	Martinez Jesus	34	174	Hercules High	South America
## 162	Martinez Jesus	34	174	Hercules High	South America
## 163	Martinez Jesus	34	174	Hercules High	South America
## 164	Martinez Jesus	34	174	Hercules High	South America
## 165	Martinez Jesus	34	174	Hercules High	South America
## 166	Mcconnaughay Johnny	31	160	Eastview Institute	North America
## 167	Mcconnaughay Johnny	31	160	Eastview Institute	North America
## 168	Mcconnaughay Johnny	31	160	Eastview Institute	North America

## 169	Mcconnaughay Johnny	31	160	Eastview Institute	North America
## 170	Mcconnaughay Johnny	31	160	Eastview Institute	North America
## 171	Mims Kevin	26	178	Central Valley School	South America
## 172	Mims Kevin	26	178	Central Valley School	South America
## 173	Mims Kevin	26	178	Central Valley School	South America
## 174	Mims Kevin	26	178	Central Valley School	South America
## 175	Mims Kevin	26	178	Central Valley School	South America
## 176	Murillo Steven	31	169	Ravenwood College	Antarctica
## 177	Murillo Steven	31	169	Ravenwood College	Antarctica
## 178	Murillo Steven	31	169	Ravenwood College	Antarctica
## 179	Murillo Steven	31	169	Ravenwood College	Antarctica
## 180	Murillo Steven	31	169	Ravenwood College	Antarctica
## 181	Murray Chance	33	176	Coral Coast School	Antarctica
## 182	Murray Chance	33	176	Coral Coast School	Antarctica
## 183	Murray Chance	33	176	Coral Coast School	Antarctica
## 184	Murray Chance	33	176	Coral Coast School	Antarctica
## 185	Murray Chance	33	176	Coral Coast School	Antarctica
## 186	Park Alexander	31	180	Central Valley High	Africa
## 187	Park Alexander	31	180	Central Valley High	Africa
## 188	Park Alexander	31	180	Central Valley High	Africa
## 189	Park Alexander	31	180	Central Valley High	Africa
## 190	Park Alexander	31	180	Central Valley High	Africa
## 191	Perez Robert	32	178	Pleasant Hill Institute	Africa
## 192	Perez Robert	32	178	Pleasant Hill Institute	Africa
## 193	Perez Robert	32	178	Pleasant Hill Institute	Africa
## 194	Perez Robert	32	178	Pleasant Hill Institute	Africa
## 195	Perez Robert	32	178	Pleasant Hill Institute	Africa
## 196	Perry Deven	32	176	Sacred Heart University	Europe
## 197	Perry Deven	32	176	Sacred Heart University	Europe
## 198	Perry Deven	32	176	Sacred Heart University	Europe
## 199	Perry Deven	32	176	Sacred Heart University	Europe
## 200	Perry Deven	32	176	Sacred Heart University	Europe
## 201	Pillow Jared	29	166	Ravenwood University	Antarctica
## 202	Pillow Jared	29	166	Ravenwood University	Antarctica
## 203	Pillow Jared	29	166	Ravenwood University	Antarctica
## 204	Pillow Jared	29	166	Ravenwood University	Antarctica
## 205	Pillow Jared	29	166	Ravenwood University	Antarctica
## 206	Rhoadarmer Joshua	21	184	Coral Coast High	North America
## 207	Rhoadarmer Joshua	21	184	Coral Coast High	North America
## 208	Rhoadarmer Joshua	21	184	Coral Coast High	North America
## 209	Rhoadarmer Joshua	21	184	Coral Coast High	North America
## 210	Rhoadarmer Joshua	21	184	Coral Coast High	North America
## 211	Salinas Travvone	22	181	Savanna High	Africa
## 212	Salinas Travvone	22	181	Savanna High	Africa
## 213	Salinas Travvone	22	181	Savanna High	Africa
## 214	Salinas Travvone	22	181	Savanna High	Africa
## 215	Salinas Travvone	22	181	Savanna High	Africa
## 216	Schubert Brendan	19	177	Spring Gardens School	Europe
## 217	Schubert Brendan	19	177	Spring Gardens School	Europe
## 218	Schubert Brendan	19	177	Spring Gardens School	Europe
## 219	Schubert Brendan	19	177	Spring Gardens School	Europe
## 220	Schubert Brendan	19	177	Spring Gardens School	Europe
## 221	Smith Adonias	26	183	Sunny Hills Academy	Antarctica
## 222	Smith Adonias	26	183	Sunny Hills Academy	Antarctica

## 223	Smith Adonias	26	183	Sunny Hills Academy	Antarctica
## 224	Smith Adonias	26	183	Sunny Hills Academy	Antarctica
## 225	Smith Adonias	26	183	Sunny Hills Academy	Antarctica
## 226	Stegmayer Bryan	32	175	Eastview High	South America
## 227	Stegmayer Bryan	32	175	Eastview High	South America
## 228	Stegmayer Bryan	32	175	Eastview High	South America
## 229	Stegmayer Bryan	32	175	Eastview High	South America
## 230	Stegmayer Bryan	32	175	Eastview High	South America
## 231	Torrance Seth	24	164	Savanna Academy	Antarctica
## 232	Torrance Seth	24	164	Savanna Academy	Antarctica
## 233	Torrance Seth	24	164	Savanna Academy	Antarctica
## 234	Torrance Seth	24	164	Savanna Academy	Antarctica
## 235	Torrance Seth	24	164	Savanna Academy	Antarctica
## 236	Uyemura Matthew	28	179	Monarch College	North America
## 237	Uyemura Matthew	28	179	Monarch College	North America
## 238	Uyemura Matthew	28	179	Monarch College	North America
## 239	Uyemura Matthew	28	179	Monarch College	North America
## 240	Uyemura Matthew	28	179	Monarch College	North America
## 241	Vo Enkhtsogt	18	170	Central Valley Institute	Australia
## 242	Vo Enkhtsogt	18	170	Central Valley Institute	Australia
## 243	Vo Enkhtsogt	18	170	Central Valley Institute	Australia
## 244	Vo Enkhtsogt	18	170	Central Valley Institute	Australia
## 245	Vo Enkhtsogt	18	170	Central Valley Institute	Australia
## 246	Ware Taju	25	162	Hercules School	North America
## 247	Ware Taju	25	162	Hercules School	North America
## 248	Ware Taju	25	162	Hercules School	North America
## 249	Ware Taju	25	162	Hercules School	North America
## 250	Ware Taju	25	162	Hercules School	North America

25. Simpan semua plot menjadi gambar (soal nomor: 6, 9, dan 22) **(3 poin)**

#

SELESAI~~~

Terimakasih telah mengikuti praktikum dari awal hingga akhir!

Kami selaku aslab ingin meminta maaf untuk semua kesalahan kami selama praktikum dari awal hingga akhir. Serta kekurangan kami dalam menyampaikan materi. Sampai jumpa dilain kesempatan. Semoga selalu diberikan kesehatan untuk kita semua~

Bagi yang berkenan dapat memberikan kesan dan pesan kepada kami aslab pada kolom dibawah:

Kesan

Pesan