PRACTICA DE SIMULACION - REGRESION FIFA
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COMPUTACION

1. Con los datos de Fifa, organizar a los jugadores de acuerdo al peso en las siguientes e

```
# Imports y carga de datos
import pandas as pd
import numpy as np
import matplotlib.pyplot as plot
import matplotlib.patches as ptch
import plotly.express as px

data = pd.read_csv('fifa_datos.csv')
data
```

	Unnamed: 0	ID	Name	Age	Photo
0	0	158023	L. Messi	31	https://cdn.sofifa.org/players/4/19/158023.png
1	1	20801	Cristiano Ronaldo	33	https://cdn.sofifa.org/players/4/19/20801.png
2	2	190871	Neymar Jr	26	https://cdn.sofifa.org/players/4/19/190871.png
3	3	193080	De Gea	27	https://cdn.sofifa.org/players/4/19/193080.png
4	4	192985	K. De Bruyne	27	https://cdn.sofifa.org/players/4/19/192985.png
...	...	...	...	...	...
18202	18202	238813	J. Lundstram	19	https://cdn.sofifa.org/players/4/19/238813.png
18203	18203	243165	N. Christoffersson	19	https://cdn.sofifa.org/players/4/19/243165.png
18204	18204	241638	B. Worman	16	https://cdn.sofifa.org/players/4/19/241638.png
18205	18205	246268	D. Walker-Rice	17	https://cdn.sofifa.org/players/4/19/246268.png
18206	18206	246269	G. Nugent	16	https://cdn.sofifa.org/players/4/19/246269.png

18207 rows × 89 columns

```
r1 = 125
r2 = 150
r3 = 175

data_fifa = pd.DataFrame()
data_fifa['id'] = data['ID']
data_fifa['nombre'] = data['Name']
data_fifa['edad'] = data['Age']
data_fifa['nacionalidad'] = data['Nationality']
data_fifa['peso'] = data['Weight']
data_fifa['estatura'] = data['Height']
data_fifa['potencial'] = data['Potential']
data_fifa['puntaje'] = data['Overall']

for i in range(len(data_fifa)):
    data_fifa['peso'][i] = str(data_fifa['peso'][i])
    data_fifa['peso'][i] = data_fifa['peso'][i][0:3]
    data_fifa['peso'][i] = float(data_fifa['peso'][i])

data_fifa.dropna(subset = ["peso"], inplace=True)
```

```
/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:16: SettingWithCopyWarn


A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/u

/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:17: SettingWithCopyWarn


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/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:18: SettingWithCopyWarn


A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/u
```
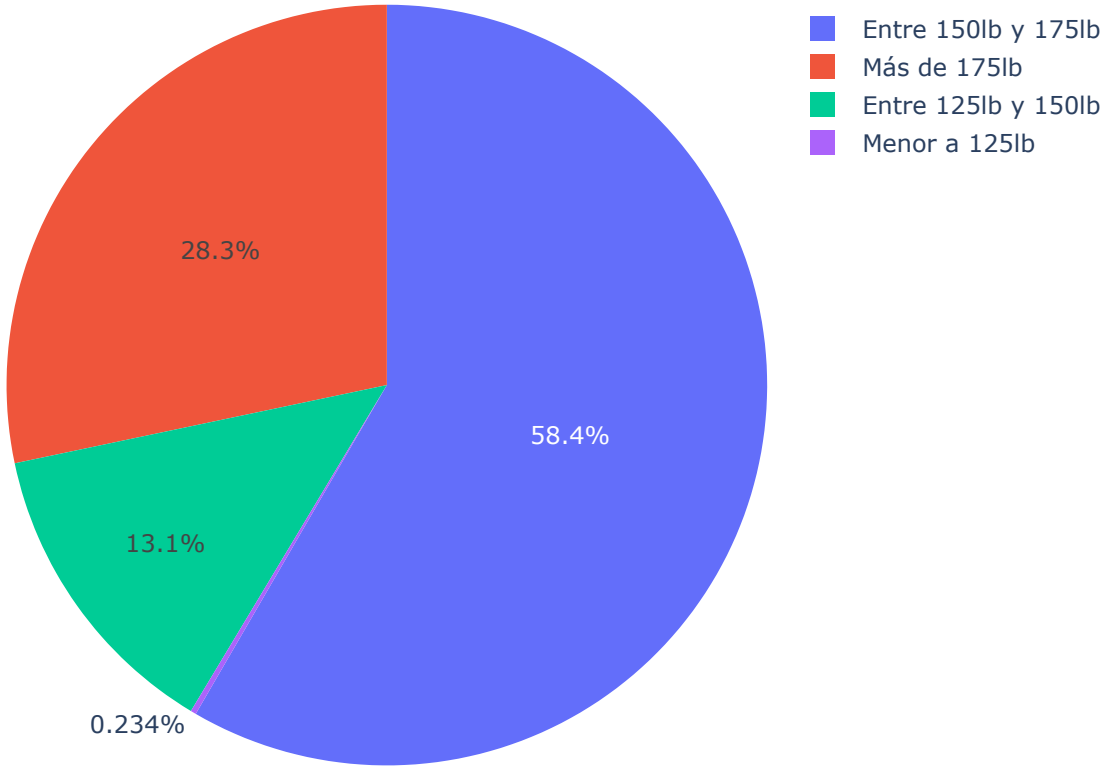

```
# Creación de los contadores necesarios
cont1 = 0
cont2 = 0
cont3 = 0
cont4 = 0

cont5 = 0
cont6 = 0
cont8 = 0
cont7 = 0
cont9 = 0
cont10 = 0
```

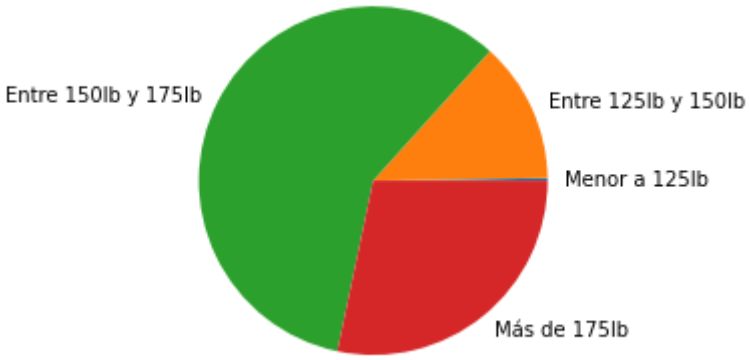
```
cont11 = 0

for i in data_fifa['peso']:
    if i < r1:
        cont1 = cont1+1
    elif i > r1 and i < r2:
        cont2 = cont2+1
    elif i > r2 and i < r3:
        cont3 = cont3+1
    elif i > r3:
        cont4 = cont4+1

for i in data_fifa['puntaje']:
    if i < 40:
        cont5 = cont5+1
    elif i < 50:
        cont6 = cont6+1
    elif i < 60:
        cont7 = cont7+1
    elif i < 70:
        cont8 = cont8+1
    elif i < 80:
        cont9 = cont9+1
    elif i < 90:
        cont10 = cont10+1
    elif i < 100:
        cont11 = cont11+1


# Gráfico de barra
datos1 = [cont5, cont6, cont7, cont8, cont9, cont10, cont11]
labels1 = ["<40", "<50", "<60", "<70", "<80", "<90", "<100"]

fig = plot.figure()
ax = fig.add_axes([0,0,1,1])
ax.bar(labels1, datos1)
```

<BarContainer object of 7 artists>

```
# Gráfico de pastel libreria plotly.express
datos = [cont1,cont2,cont3,cont4]
labels = ["Menor a 125lb", "Entre 125lb y 150lb", "Entre 150lb y 175lb", "Más de 175lb"]

fig = px.pie(values = datos , names = labels)
fig.show()
```




```
# Gráfico de pastel matplotlib.pyplot
datos = [cont1,cont2,cont3,cont4]
labels = ["Menor a 125lb", "Entre 125lb y 150lb", "Entre 150lb y 175lb", "Más de 175lb"]
plot.pie(datos, labels=labels)
plot.show()
```



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