

```
In [1]: import csv
import os

In [38]: # Imprimir Las primeras 50 líneas

# Abre el archivo CSV
with open('Height of Male and Female by Country 2022.csv', newline='') as rows50:
    csvreader = csv.reader(rows50)

    # Leemos e imprimimos Las primeras 50 líneas

    for i, row in enumerate(csvreader):
        print(row)
        if i == 49: # si se cumple la condicion, se cierra el bucle
            break
```

```
['Rank', 'Country Name', 'Male Height in Cm', 'Female Height in Cm', 'Male Height in Ft', 'Female Height in Ft']
['1', 'Netherlands', '183.78', '170.36', '6.03', '5.59']
['2', 'Montenegro', '183.30', '169.96', '6.01', '5.58']
['3', 'Estonia', '182.79', '168.66', '6.00', '5.53']
['4', 'Bosnia and Herzegovina', '182.47', '167.47', '5.99', '5.49']
['5', 'Iceland', '182.10', '168.91', '5.97', '5.54']
['6', 'Denmark', '181.89', '169.47', '5.97', '5.56']
['7', 'Czech Republic', '181.19', '167.96', '5.94', '5.51']
['8', 'Latvia', '181.17', '168.81', '5.94', '5.54']
['9', 'Slovakia', '181.02', '167.12', '5.94', '5.48']
['10', 'Slovenia', '180.98', '167.20', '5.94', '5.49']
['11', 'Ukraine', '180.98', '166.62', '5.94', '5.47']
['12', 'Croatia', '180.76', '166.80', '5.93', '5.47']
['13', 'Serbia', '180.74', '168.29', '5.93', '5.52']
['14', 'Lithuania', '180.72', '167.63', '5.93', '5.50']
['15', 'Poland', '180.69', '165.78', '5.93', '5.44']
['16', 'Finland', '180.57', '166.48', '5.92', '5.46']
['17', 'Norway', '180.48', '166.45', '5.92', '5.46']
['18', 'Sweden', '180.46', '166.67', '5.92', '5.47']
['19', 'Germany', '180.28', '166.18', '5.91', '5.45']
['20', 'Dominica', '180.15', '166.89', '5.91', '5.48']
['21', 'Bermuda', '179.72', '166.11', '5.90', '5.45']

['27', 'Andorra', '178.84', '165.53', '5.87', '5.43']
['28', 'Antigua and Barbuda', '178.84', '165.72', '5.87', '5.44']
['29', 'Australia', '178.77', '164.67', '5.87', '5.40']
['30', 'Canada', '178.75', '164.73', '5.86', '5.40']
['31', 'Switzerland', '178.73', '164.33', '5.86', '5.39']
['32', 'Grenada', '178.70', '165.99', '5.86', '5.45']
['33', 'Belarus', '178.69', '166.93', '5.86', '5.48']
['34', 'France', '178.60', '164.49', '5.86', '5.40']
['35', 'Austria', '178.52', '166.93', '5.86', '5.48']
['36', 'Luxembourg', '178.46', '165.07', '5.86', '5.42']
['37', 'Cook Islands', '178.32', '167.31', '5.85', '5.49']
['38', 'French Polynesia', '178.32', '166.52', '5.85', '5.46']
['39', 'United Kingdom', '178.21', '163.94', '5.85', '5.38']
['40', 'Romania', '177.82', '164.73', '5.83', '5.40']
['41', 'New Zealand', '177.72', '164.66', '5.83', '5.40']
['42', 'Saint Vincent and the Grenadines', '177.49', '165.30', '5.82', '5.42']
['43', 'Niue', '177.19', '167.03', '5.81', '5.48']
['44', 'American Samoa', '177.09', '167.55', '5.81', '5.50']
['45', 'Barbados', '177.03', '165.66', '5.81', '5.44']
['46', 'Jamaica', '176.97', '164.32', '5.81', '5.39']
['47', 'United States', '176.94', '163.31', '5.81', '5.36']
['48', 'Tunisia', '176.85', '161.69', '5.80', '5.30']
['49', 'Russia', '176.65', '164.52', '5.80', '5.40']
```

```
csvreader = csv.reader(file)
rows = []
for row in csvreader:
    rows.append(row)
```

[ 'Rank', 'Country Name', 'Male Height in Cm', 'Female Height in Cm', 'Male Height in Ft', 'Female Height in Ft'], [ '1', 'Netherlands', '183.78', '170.36', '6.03', '5.59'], [ '2', 'Montenegro', '183.30', '169.96', '6.01', '5.58'], [ '3', 'Estonia', '182.79', '168.66', '6.00', '5.53'], [ '4', 'Bosnia and Herzegovina', '182.47', '167.47', '5.99', '5.49'], [ '5', 'Iceland', '182.10', '168.91', '5.97', '5.54'], [ '6', 'Denmark', '181.89', '169.47', '5.97', '5.56'], [ '7', 'Czech Republic', '181.19', '167.96', '5.94', '5.51'], [ '8', 'Latvia', '181.17', '168.81', '5.94', '5.54'], [ '9', 'Slovakia', '181.02', '167.12', '5.94', '5.48'], [ '10', 'Slovenia', '180.98', '167.20', '5.94', '5.49'], [ '11', 'Ukraine', '180.98', '166.62', '5.94', '5.47'], [ '12', 'Croatia', '180.76', '166.80', '5.93', '5.47'], [ '13', 'Serbia', '180.74', '168.29', '5.93', '5.52'], [ '14', 'Lithuania', '180.72', '167.63', '5.93', '5.50'], [ '15', 'Poland', '180.69', '165.78', '5.93', '5.44'], [ '16', 'Finland', '180.57', '166.48', '5.92', '5.46'], [ '17', 'Norway', '180.48', '166.45', '5.92', '5.46'], [ '18', 'Sweden', '180.46', '166.67', '5.92', '5.47'], [ '19', 'Germany', '180.28', '166.18', '5.91', '5.45'], [ '20', 'Dominica', '180.15', '166.89', '5.91', '5.48'], [ '21', 'Bermuda', '179.72', '166.11', '5.90', '5.45'], [ '22', 'Puerto Rico', '179.48', '163.06', '5.89', '5.35'], [ '23', 'Greece', '179.26', '165.81', '5.88', '5.44'], [ '24', 'Belgium', '179.09', '163.40', '5.88', '5.36'], [ '25', 'Ireland', '179.04', '164.50', '5.87', '5.40'], [ '26', 'Lebanon', '178.96', '163.67', '5.87', '5.37'], [ '27', 'Andorra', '178.84', '165.53', '5.87', '5.43'], [ '28', 'Antigua and Barbuda', '178.84', '165.72', '5.87', '5.44'], [ '29', 'Australia', '178.77', '164.67', '5.87', '5.40'], [ '30', 'Canada', '178.75', '164.73', '5.86', '5.40'], [ '31', 'Switzerland', '178.73', '164.33', '5.86', '5.39'], [ '32', 'Grenada', '178.70', '165.99', '5.86', '5.45'], [ '33', 'Belarus', '178.69', '166.93', '5.86', '5.48'], [ '34', 'France', '178.60', '164.49', '5.86', '5.40'], [ '35', 'Austria', '178.52', '166.93', '5.86', '5.48'], [ '36', 'Luxembourg', '178.46', '165.99', '5.86', '5.45'], [ '37', 'Cape Verde', '178.32', '167.31', '5.85', '5.49'], [ '38', 'French Polynesia', '178.32', '165.99', '5.85', '5.45'], [ '39', 'United Kingdom', '178.21', '163.94', '5.85', '5.38'], [ '40', 'Romania', '177.82', '164.73', '5.85', '5.40'], [ '41', 'Iceland', '177.72', '166.67', '5.85', '5.47'], [ '42', 'Vietnam', '177.60', '165.30', '5.85', '5.40'], [ '43', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '44', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '45', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '46', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '47', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '48', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '49', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '50', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '51', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '52', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '53', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '54', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '55', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '56', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '57', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '58', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '59', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '60', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '61', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '62', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '63', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '64', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '65', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '66', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '67', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '68', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '69', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '70', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '71', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '72', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '73', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '74', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '75', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '76', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '77', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '78', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '79', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '80', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '81', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '82', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '83', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '84', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '85', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '86', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '87', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '88', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '89', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '90', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '91', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '92', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '93', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '94', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '95', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '96', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '97', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '98', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '99', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '100', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '101', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '102', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '103', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '104', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '105', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '106', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '107', 'Czech Republic', '177.50', '165.30', '5.85', '5.40'], [ '108', 'Czech Republic', '177.50', '165

```
from statistics import mean
import numpy as np
```

```
array(['Male Height in Cm', '183.78', '183.30', '182.79', '182.47',  
      '182.10', '181.89', '181.19', '181.17', '181.02', '180.98',  
      '180.98', '180.76', '180.74', '180.72', '180.69', '180.57',  
      '180.48', '180.46', '180.28', '180.15', '179.72', '179.48',  
      '179.26', '179.09', '179.04', '178.96', '178.84', '178.84',  
      '178.77', '178.75', '178.73', '178.70', '178.69', '178.60',  
      '178.52', '178.46', '178.32', '178.32', '178.21', '177.82',  
      '177.72', '177.49', '177.19', '177.09', '177.03', '176.97',  
      '176.94', '176.85', '176.65', '176.59', '176.43', '176.43',  
      '176.39', '176.36', '176.35', '176.18', '176.11', '176.06',  
      '176.03', '175.98', '175.98', '175.90', '175.73', '175.66',  
      '175.62', '175.59', '175.52', '175.50', '175.11', '175.05',  
      '175.04', '175.02', '174.96', '174.84', '174.83', '174.76',  
      '174.69', '174.65', '174.57', '174.51', '174.42', '174.42',  
      '174.40', '174.38', '174.37', '174.37', '174.32', '174.17',  
      '174.08', '174.07', '174.04', '174.00', '173.98', '173.84']
```

[illegible]

```
In [80]: # filtro de altura mujeres
```

```
altura_mujeres = alturas[:,3]
altura_mujeres
```

```
Out[80]: array(['Female Height in Cm', '170.36', '169.96', '168.66', '167.47',
               '168.91', '169.47', '167.96', '168.81', '167.12', '167.20',
               '166.62', '166.80', '168.29', '167.63', '165.78', '166.48',
               '166.45', '166.67', '166.18', '166.89', '166.11', '163.06',
               '165.81', '163.40', '164.50', '163.67', '165.53', '165.72',
               '164.67', '164.73', '164.33', '165.99', '166.93', '164.49',
               '166.93', '165.07', '167.31', '166.52', '163.94', '164.73',
               '164.66', '165.30', '167.03', '167.55', '165.66', '164.32',
               '163.31', '161.69', '164.52', '162.55', '165.52', '160.88',
               '162.56', '161.80', '161.18', '163.92', '162.03', '166.08',
               '163.38', '162.22', '163.24', '162.47', '162.41', '163.46',
               '161.18', '162.96', '163.23', '161.74', '166.08', '161.28',
               '162.35', '161.99', '160.10', '159.46', '160.62', '161.22',
               '161.22', '161.21', '160.88', '162.26', '161.81', '163.82',
               '163.46', '162.95', '162.83', '161.23', '161.56', '164.58',
               '160.53', '162.23', '160.36', '161.37', '164.28', '161.40',
               '159.76', '158.75', '162.78', '159.85', '160.13', '160.04',
               '160.70', '161.30', '160.72', '162.06', '158.94', '159.42',
               '158.29', '160.55', '160.58', '159.57', '160.41', '160.36',
               '158.50', '161.33', '157.96', '162.12', '158.44', '160.20',
               '159.38', '159.42', '158.14', '163.57', '158.78', '159.86',
               '160.29', '159.82', '158.75', '159.85', '159.89', '156.39',
               '158.84', '159.52', '157.58', '158.12', '160.05', '159.43',
```

```
In [84]: cadena_sin_decimal = altura_mujeres
altmujer_sin_decimal_valida = [cadena.split('.')[0] for cadena in cadena_sin_decimal if cadena.replace('.', '').isdigit()]

# Convertir las cadenas válidas a enteros
altmujer_sin_decimal_int = [int(numeric_string) for numeric_string in altmujer_sin_decimal_valida]

print(altmujer_sin_decimal_int)
```

```
[170, 169, 168, 167, 168, 169, 167, 168, 167, 167, 166, 166, 168, 167, 165, 166, 166, 166, 166, 166, 163, 165, 163, 164, 1
63, 165, 165, 164, 164, 164, 165, 166, 164, 166, 165, 167, 166, 163, 164, 164, 165, 167, 167, 165, 164, 163, 161, 164, 162, 16
5, 160, 162, 161, 161, 163, 162, 166, 163, 162, 163, 162, 162, 163, 161, 162, 163, 161, 166, 161, 162, 161, 160, 159, 160, 161,
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1, 160, 162, 158, 159, 158, 160, 160, 159, 160, 160, 158, 161, 157, 162, 158, 160, 159, 159, 158, 163, 158, 159, 160, 159, 158,
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155, 157, 154, 154, 156, 156, 160, 156, 154, 154, 154, 153, 152, 154, 152, 150, 155, 156, 156, 153, 152]
```

```
In [85]: # obtener meadia, max y min de altura de hombres del data set completo
```

```
mean_alt_hombres = mean(althombre_sin_deci_int)
max_alt_hombres = max(althombre_sin_deci_int)
min_alt_hombres = min(althombre_sin_deci_int)
```

```
In [92]: # imprimir los resultados
```

```
print('En promedio, la altura del conjunto de datos de los hombres es de:', int(mean_alt_hombres), 'cm')
print('La altura máxima del conjunto de datos de los hombres es:', int(max_alt_hombres), 'cm')
print('La altura mínima del conjunto de datos de los hombres es:', int(min_alt_hombres), 'cm')
```

```
En promedio, la altura del conjunto de datos de los hombres es de: 172 cm
La altura máxima del conjunto de datos de los hombres es: 183 cm
La altura mínima del conjunto de datos de los hombres es: 160 cm
```

In [89]: *# obtener meadia, max y min de altura de mujeres del data set completo*

```
mean_alt_mujeres = mean(altmujer_sin_decimal_int)
max_alt_mujeres = max(altmujer_sin_decimal_int)
min_alt_mujeres = min(altmujer_sin_decimal_int)
```

In [91]: *# imprimir los resultados*

```
print('En promedio, la altura del conjunto de datos de las mujeres es de:', int(mean_alt_mujeres), 'cm')
print('La altura maxima del conjunto de datos de las mujeres es:', int(max_alt_mujeres), 'cm')
print('La altura minima del conjunto de datos de las mujeres es:', int(min_alt_mujeres), 'cm')
```

En promedio, la altura del conjunto de datos de las mujeres es de: 160 cm  
La altura maxima del conjunto de datos de las mujeres es: 170 cm  
La altura minima del conjunto de datos de las mujeres es: 150 cm

In [116]: *# Obtener la data de alturas de su país de origen*

```
print(rows[139])
```

['139', 'Mexico', '170.29', '157.90', '5.59', '5.18']