

AAIL100: Introduction to Data Science (quiz-1)

Name:

Entry number:

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In [ ]: # We'll use the following libraries in this quiz
import pandas as pd
import numpy as np
from matplotlib.pyplot import subplots
```

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In [12]: # We'll load up a small dataset on NBA players from 2013
data = pd.read_csv('nba_short.csv')
data
```

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Out[12]:
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	Name	Position	Height	Weight	Age in 2013
0	Vince Carter	Forward	78	220	36
1	John Salmons	Forward	78	207	33
2	Tyrus Thomas	Forward	82	225	27
3	Chris Kaman	Center	84	265	31
4	Dionte Christmas	Guard	77	205	27
5	C.J. Miles	Guard	78	222	26
6	Chris Wright	Forward	80	218	24
7	J.J. Hickson	Forward	81	242	25
8	Tony Gaffney	Forward	80	205	28
9	Richard Jefferson	Forward	79	230	33
10	Kyle Lowry	Guard	72	205	27
11	Nolan Smith	Guard	74	185	25
12	Jameer Nelson	Guard	72	190	31
13	Matt Bonner	Forward	82	235	33
14	Corey Maggette	Forward	78	225	33
15	Alonzo Gee	Forward	78	219	26
16	Dwight Howard	Center	83	265	27
17	Anthony Morrow	Guard	77	210	27
18	Hedo Turkoglu	Forward	82	220	34
19	Nando De Colo	Guard	77	200	26

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(Q1) Give the output of the command in the next code cell. Clearly mark the labels of the axes. (2 points)

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In [ ]: data.hist('Height', bins = np.arange(70, 85, 1));
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(Q2) Give the output of the command in the next code cell. (1 point)

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In [ ]: A = np.array(data['Weight'])  
print(np.max(A/2))
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(Q3) Give the output of the command in the next code cell. (1 point)

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In [ ]: print(data[data['Age in 2013'] >= 30]['Weight'].mean())
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(Q4) Give the output of the command in the next code cell. (2 point)

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In [ ]: data.groupby('Age in 2013')['Weight'].mean()
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(Q5) Give the command or the sequence of commands to compute the average height of players with 'Age in 2013' between 27 to 33 (27 and 33 inclusive). (1.5 points)

(Q6) Give the command or the sequence of commands to output the name of the tallest player with 'Age in 2013' ≤ 30 . (1.5 points)

(Q7) Write the command or sequence of commands to create a new dataframe that has one additional column labeled 'Age_in_2026' with the age of the people in 2026. (1 points)

In []: