

THE BRAIN BOOSTER

PYTHON FOR DATA SCIENCE

Basketball Players

```
players = [180, 172, 178, 185, 190, 195, 192, 200, 210, 190]

mean = sum(players)/len(players)
stdvar = (sum((v-mean)**2 for v in players)/len(players))*0.5

low, high = mean-stdvar, mean+stdvar

count = len([v for v in players if low < v < high])

print(count)
```

House Prices

```
import numpy as np

data = np.array([150000, 125000, 320000, 540000, 200000, 120000, 160000,
                230000, 280000, 290000, 300000, 500000, 420000, 100000, 150000, 280000])

mean = np.mean(data)
std = np.std(data)
low = mean-std
high = mean+std
count = 0

for i in data:
    if low < i < high:
        count += 1

result = (count / len(data))*100

print(result)
```

COVID Data Analysis

```
import pandas as pd

df = pd.read_csv("/usercode/files/ca-covid.csv")

df.drop('state', axis=1, inplace=True)
df.set_index('date', inplace=True)
df = pd.read_csv("/usercode/files/ca-covid.csv")

df.drop('state', axis=1, inplace=True)
df.set_index('date', inplace=True)
df["ratio"] = df["deaths"] / df["cases"]
max_ratio = df.loc[df["ratio"] == df["ratio"].max()]
print(max_ratio)
```