

Converting Baseball Players' Height from Inches to Meters Using NumPy

Below is the image showing the exercise from DataCamp:

The screenshot shows the DataCamp exercise interface for 'Baseball players' height'. The left panel contains the exercise description and instructions. The right panel shows a code editor with a solution script. The bottom panel shows the iPython Shell.

Exercise: Baseball players' height

You are a huge baseball fan. You decide to call the MLB (Major League Baseball) and ask around for some more statistics on the height of the main players. They pass along data on more than a thousand players, which is stored as a regular Python list: `height_in`. The height is expressed in inches. Can you make a `numpy` array out of it and convert the units to meters?

`height_in` is already available and the `numpy` package is loaded, so you can start straight away (Source: stat.ucla.edu).

Instructions (100 XP)

- Create a `numpy` array from `height_in`. Name this new array `np_height_in`.
- Print `np_height_in`.
- Multiply `np_height_in` with `0.0254` to convert all height measurements from inches to meters. Store the new values in a new array, `np_height_m`.
- Print out `np_height_m` and check if the output makes sense.

[Take Hint \(-30 XP\)](#)

script.py

```
1 # Import numpy
2 import numpy as np
3
4 # Create a numpy array from height_in: np_height_in
5
6
7 # Print out np_height_in
8
9
10 # Convert np_height_in to m: np_height_m
11
12
13 # Print np_height_m
14
```

iPython Shell

```
In [1]:
```

Exercise Explanation:

The exercise involves using the NumPy package to create an array from the given 'height_in' list. The goal is to convert the heights from inches to meters and print the resulting values.

Answer Code:

```
import numpy as np
np_height_in = np.array(height_in)
print(np_height_in)
np_height_m = np_height_in * 0.0254
print(np_height_m)
```

Explanation of the Code:

We first import NumPy as `np` and convert the 'height_in' list into a NumPy array named `np_height_in`. We then convert the values to meters by

multiplying the array by 0.0254, the conversion factor from inches to meters. Finally, we print both arrays.