









Richa Patel

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NumPy





Instructions

NumPy Exercise (30 Points)

- Create a new Jupyter Notebook
- Import numpy
- Work the problems below (3 points each)
- Submit a PDF output of your work to the dropbox for grading

First, make a common array to work with.

```
np.random.seed(21)
random_integers = np.random.randint(1,high=500000, size=(20, 5))
random integers
```

- 1. What is the average value of the second column?
- 2. What is the average value of the first 5 rows of the third and fourth columns?
- 3. Create a 10 x 10 slice from of random_integers array, named arrayTenByTen, that started at 0:0 from random_integers
- 4. Creta a new array from the arrayTenByTen that is one rank and

called arrayTenFlat

- 5. What is the sum of arrayTenFlat?
- 6. Iterate through arrayTenFlat
- 7. What is the value of the element (9,2) in random_integers array?
- 8. What is the data type of arrayTenFlat?
- 9. In arrayTenFlat replace the value in index 5 with 42
- 10. Save the array *random_integers* to a file. List the directory showing the saved array.

Submissions

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Activity Details

Task: Submit to complete this assignment

Due February 21 at 11:30 PM Ends Feb 28, 2021 11:30 PM

Last Visited Jan 27, 2021 3:58 PM