ISM 4403 Homework Week 12

### Tasks:

Create a new Excel spreadsheet from the following table and export it as a CSV file without quotes.

**Chart 12.1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| id | Height (inches) | gender | Hair color | Eye Color | Age |
| 1 | 67 | male | brown | brown | 25 |
| 2 | 64 | female | brown | green | 23 |
| 3 | 74 | male | blond | blue | 27 |
| 4 | 73 | Male | brown | brown | 35 |
| 5 | 60 | female | red | green | 40 |
| 6 | 61 | female | brown | green | 45 |
| 7 | 73 | female | blond | blue |  |
| 8 | 70 | female | brown | blue | 50 |
| 9 | 56 | female | blond | brown | 60 |
| 10 | 57 | male | blond | brown | 18 |
| 11 | 64 |  | brown | brown | 25 |
| 12 | 69 | male | brown | green | 23 |
| 13 | 69 | female | blond |  | 27 |
| 14 | 70 | female | brown | brown | 35 |
| 15 | 71 | female | red | green | 40 |
| 16 | 60 | female |  | green | 45 |
| 17 | 80 | male | blond | blue | 41 |
| 18 | 75 | male | brown | blue | 50 |
| 19 | 78 | male | blond | brown | 60 |
| 20 | 69 | male | blond | brown | 18 |
| 21 |  | female | brown | brown | 25 |
| 22 | 66 | male | brown | green | 23 |
| 23 | 74 | female | blond | blue | 27 |
| 24 | 72 | male | brown | brown | 35 |
| 25 | 68 | female | red | green | 40 |
| 26 | 64 | female | brown | green | 45 |
| 27 | 63 | female | blond | blue | 41 |
| 28 |  | male | brown | blue | 50 |
| 29 | 70 | male | blond | brown | 60 |
| 30 | 62 | male | blond | brown | 18 |

Using Jupyter Notebooks

Import the the sheet into a data structure in Python.

1. Convert the structure to a ndarray. Use this data structure for the remainder of this assignment.
2. Using Numpy functions resolve any issues with missing data as done in previous homeworks (4).
3. Using Numpy functions calculate the following.
   1. The mean height.
   2. The sum of all heights.
   3. The mode for gender, hair color, and eye color.

**Paste your code here**

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**Paste your results here**

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**Rubric**

20% for completing step 1

20% for completing step 2

20% for completing step a

20% for completing step b

20% for completing step c