CSAU Recruitment Task

Hello Everyone!

Given in this repository are 4 files, regarding the data of different books:

1. **number.csv** contains the details of the ID of 100 books.
2. **books.csv** contains the details of the Name of 100 books.
3. **ratings.csv** contains the details of the ratings of 100 books.
4. **available.csv** has the data if that particular book is available or not.
In all the files,the first entry is of the first book, the second entry of the second book and so on.

Your task is,

1. Due to improper validations done by the developer, a lot of IDs are missing. Make a note of those IDs, if they're odd then replace them, else delete the entire product

    For example, If ID 2 is missing, you can delete the product, but if ID 31 is missing, create an entry with ID=31

2. Some names of the books are missing. If the ID of that book is missing, then delete it. If ID has been found, replace it with the name of the 10th book to its left.

3. Most of the ratings are in float, where as some are missing or in int. Convert the ratings from int to float. The maximum allowed rating is 5.0, hence if the rating is above 5.0, replace it as 5.0.

4. As the entry was made by multiple people, they've used 1 or t for marking "true" and 0 or f for marking false. Convert it to t for true, f for false.

Once cleaned the data must be neatly organised in a file data.csv. It must be organised in the format ID,Name,ratings,available

BONUS:(Optional)

1. Try to plot a line graph between ratings of book and ID of the book using MatPlotLib library

2. Try the same using pandas dataframes and numpy