SeriesArray volume: int -num el: int -arr: ctypes object - create arr(self, volume): ctypes object + copy arr(self): ctypes object + setitem (self): None + contains (self): bolean + iter (self): Iterator + len (self): int + getitem (self, index): obj - resize(self, volume): None - isFull(self): bolean + append(self, item): None + remove(self, item): None + insert(self, item, index): None + map(self, func): None + str (self): str

```
DataFrame

+ columns: SeriesArray
+ rows: SeriesArray
+ num_cols: int
+ num_rows: int
+ column_names: SeriesArray

+ add_column(self, arr): None
+ add_row(self, arr): None
+ reverse rows(self): DataFrame
```

+ map_column(self, index, func): None

self, clmn indx1, clmn indx2): float

+ csv to df(self, path, column range): None

+ map row(self, index, func): None

+ average ratio of growth rates(

+ __str__(self): str