מטלה 5 - מחקר

קורס: תכנות אלגוריתמים מחקריים

מגיש: כפיר גולדפרב

משימות הכנה:

1. בוצע fork לספרייה



2. בוצע clone לספריה:

```
PS D:\Projects\Development\Courses\Python\Programming Research Algorithms\Research\Ex5\clone prtpy> git clone https://github.com/kggold4/prtpy.git cloning into 'prtpy'...
remote: Enumerating objects: 440, done.
remote: Counting objects: 100% (72/72), done.
remote: Compressing objects: 100% (14/14), done.
remote: Compressing objects: 100% (14/14), done.
remote: Total 440 (delta 67), reused 58 (delta 58), pack-reused 368
Receiving objects: 100% (440/440), 92.17 kiB | 646.00 KiB/s, done.
Resolving deltas: 100% (276/276), done.
```

3. כניסה לתיקייה:

PS D:\Projects\Development\Courses\Python\Programming Research Algorithms\Research\Ex5\clone prtpy> cd prtpy

4. יצירת סביבה וירטואלית:

```
PS D:\Projects\Development\Courses\Python\Programming Research Algorithms\Research\Ex5\myvenv> virtual env .myvenv created virtual environment CPython3.8.8.final.0-64 in 762ms creator CPython3Windows(dest=D:\Projects\Development\Courses\Python\Programming Research Algorithms\Research\Ex5\myvenv\.myvenv, clear=False, no_vcs_ignore=False, global=False) seeder FromAppData(download=False, pip=bundle, setuptools=bundle, wheel=bundle, via=copy, app_data_d ir=C:\Users\kfir Goldfarb\AppData\Local\pypa\virtualenv) added seed packages: pip==22.0.4, setuptools==62.1.0, wheel==0.37.1 activators BashActivator,BatchActivator,FishActivator,NushellActivator,PowerShellActivator,PythonAct ivator
```

(יש הרבה פקודות שעשיתי אחסוך את מכאן)

5. התקנה של הספרייה:

```
Obtaining file://D:/Projects/Development/Courses/Python/Programming%20Research%20Algorithms/Research/Ex5/clone%20prtpy/prtpy
Installing build dependencies ... done
Getting requirements to build wheel ... done
Preparing wheel metadata ... done
Requirement already satisfied: mip in c:\programdata\anaconda3\lib\site-packages (from prtpy==0.7.0) (1.13.0)
Requirement already satisfied: mumpy>=1.21.3 in c:\programdata\anaconda3\lib\site-packages (from prtpy==0.7.0) (1.22.3)
Requirement already satisfied: cffi in c:\programdata\anaconda3\lib\site-packages (from prtpy==0.7.0) (1.14.5)
Requirement already satisfied: pycparser in c:\programdata\anaconda3\lib\site-packages (from cffi->mip->prtpy==0.7.0) (1.14.5)
Requirement already satisfied: pycparser in c:\programdata\anaconda3\lib\site-packages (from cffi->mip->prtpy==0.7.0) (2.20)
Installing collected packages: prtpy
Running setup.py develop for prtpy
Successfully installed prtpy
```

```
PS D:\Projects\Development\Courses\Python\Programming Research Algorithms\Research\Ex5\clone prtpy\prtpy> pip install -r requirements.txt Requirement already satisfied: numpy>=1.21.3 in c:\programdata\anaconda3\lib\site-packages (from -r requirements.txt (line 1)) (1.22.3) Requirement already satisfied: scipy>=1.6.1 in c:\programdata\anaconda3\lib\site-packages (from -r requirements.txt (line 2)) (1.8.0) Requirement already satisfied: mip in c:\programdata\anaconda3\lib\site-packages (from -r requirements.txt (line 3)) (1.13.0) Requirement already satisfied: cffi in c:\programdata\anaconda3\lib\site-packages (from mip->-r requirements.txt (line 3)) (1.14.5) Requirement already satisfied: pycparser in c:\programdata\anaconda3\lib\site-packages (from cffi->mip->-r requirements.txt (line 3)) (2.20)
```

6. בדיקות:

כותרות:

test algorithms.py הכל נמצא בקובץ