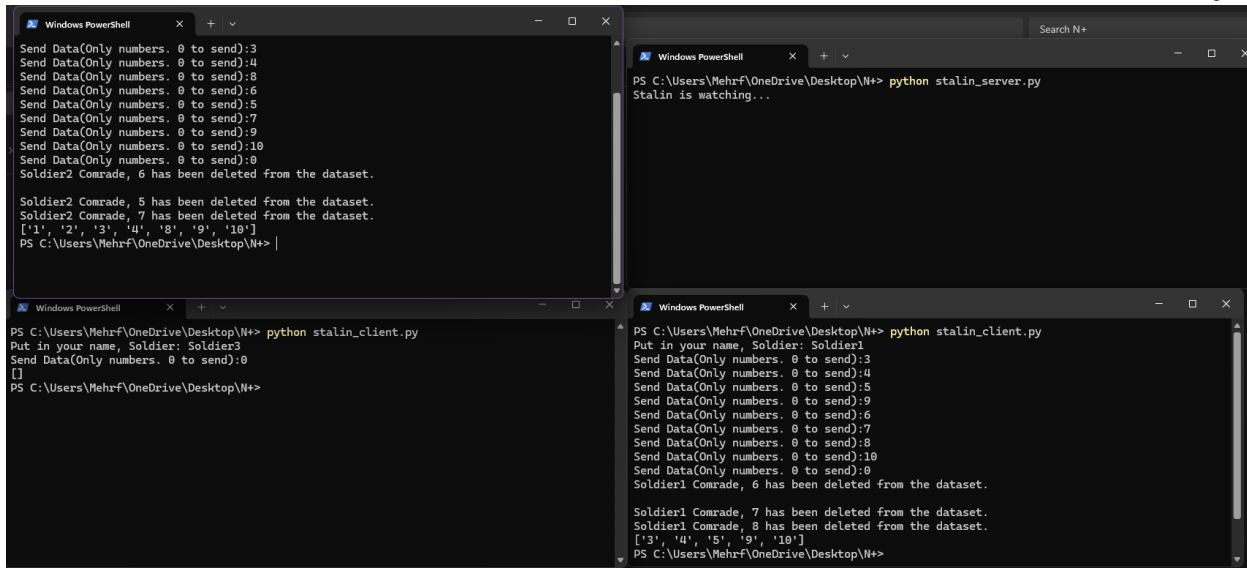


## فاطمه فرهادی 401130663

فایل استالین تست، فایل کپچر شده وایرشارک دو تست کیس استالین است. با توجه به پکت ها برای تست اول، بعد از شروع شدن سرور، به ترتیب کلاینت های [soldier1, soldier2, soldier3] به سرور وصل میشوند، بعد از فرستادن نامشان گرفتن تاییدیه و ادامه روند ان، هر کلاینتی مقادیر لیستی که باید را وارد میکند ('0') باعث اتمام گرفتن مقادیر جدید میشود). در هنگام فرستادن، هر کلاینت اسم خود را برای سرور فرستاده و سرور برای هر کلاینت، با جداسازی اسم آن و پیاده کردن روش استالین سورت بر روی لیست مقادیر بصورت ترتیب صعودی، لیست مقادیر جدید را برای همان کلاینت میفرستد. در حین سورت کردن، اگر مقداری از لیست حذف شود، در همان لحظه خبر حذف شدن ان به کلاینت مربوطه فرستاده میشود. در اخر، سرور لیست دیتای جدید را به هر کلاینت داده و اتصال ان کلاینت را با سرور قطع میکند. این روند برای تست کیس دوم نیز اتفاق میافتد. فقط نیازی به خاموش کردن سرور نبود.



```
Windows PowerShell
Send Data(Only numbers. 0 to send):3
Send Data(Only numbers. 0 to send):4
Send Data(Only numbers. 0 to send):8
Send Data(Only numbers. 0 to send):6
Send Data(Only numbers. 0 to send):5
Send Data(Only numbers. 0 to send):7
Send Data(Only numbers. 0 to send):9
Send Data(Only numbers. 0 to send):10
Send Data(Only numbers. 0 to send):0
Soldier2 Comrade, 6 has been deleted from the dataset.

Soldier2 Comrade, 5 has been deleted from the dataset.
Soldier2 Comrade, 7 has been deleted from the dataset.
['1', '2', '3', '4', '8', '9', '10']
PS C:\Users\MehrF\OneDrive\Desktop\N+>

Windows PowerShell
PS C:\Users\MehrF\OneDrive\Desktop\N+> python stalin_server.py
Stalin is watching...

Windows PowerShell
PS C:\Users\MehrF\OneDrive\Desktop\N+> python stalin_client.py
Put in your name, Soldier: Soldier3
Send Data(Only numbers. 0 to send):0
[]
PS C:\Users\MehrF\OneDrive\Desktop\N+>

Windows PowerShell
PS C:\Users\MehrF\OneDrive\Desktop\N+> python stalin_client.py
Put in your name, Soldier: Soldier1
Send Data(Only numbers. 0 to send):3
Send Data(Only numbers. 0 to send):4
Send Data(Only numbers. 0 to send):5
Send Data(Only numbers. 0 to send):9
Send Data(Only numbers. 0 to send):6
Send Data(Only numbers. 0 to send):7
Send Data(Only numbers. 0 to send):8
Send Data(Only numbers. 0 to send):10
Send Data(Only numbers. 0 to send):0
Soldier1 Comrade, 6 has been deleted from the dataset.

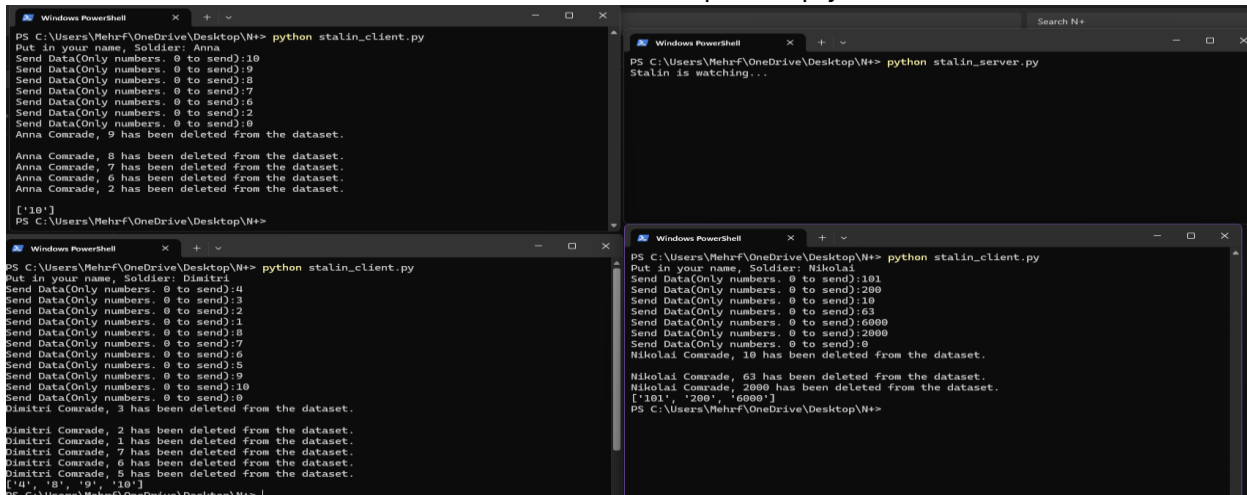
Soldier1 Comrade, 7 has been deleted from the dataset.
Soldier1 Comrade, 8 has been deleted from the dataset.
['3', '4', '5', '9', '10']
PS C:\Users\MehrF\OneDrive\Desktop\N+>
```

Test01: 127.0.66.1 Port: 4066

Soldier1: 127.0.66.1 Port: 63627 Output: [3, 4, 5, 9, 10]

Soldier2: 127.0.66.1 Port: 63630 Output: [1, 2, 3, 4, 8, 9, 10]

Soldier3: 127.0.66.1 Port: 63632 Output: Empty List



```
Windows PowerShell
PS C:\Users\MehrF\OneDrive\Desktop\N+> python stalin_client.py
Put in your name, Soldier: Anna
Send Data(Only numbers. 0 to send):10
Send Data(Only numbers. 0 to send):9
Send Data(Only numbers. 0 to send):8
Send Data(Only numbers. 0 to send):7
Send Data(Only numbers. 0 to send):6
Send Data(Only numbers. 0 to send):2
Send Data(Only numbers. 0 to send):0
Anna Comrade, 9 has been deleted from the dataset.

Anna Comrade, 8 has been deleted from the dataset.
Anna Comrade, 7 has been deleted from the dataset.
Anna Comrade, 6 has been deleted from the dataset.
Anna Comrade, 2 has been deleted from the dataset.
['10']
PS C:\Users\MehrF\OneDrive\Desktop\N+>

Windows PowerShell
PS C:\Users\MehrF\OneDrive\Desktop\N+> python stalin_server.py
Stalin is watching...

Windows PowerShell
PS C:\Users\MehrF\OneDrive\Desktop\N+> python stalin_client.py
Put in your name, Soldier: Dimitri
Send Data(Only numbers. 0 to send):4
Send Data(Only numbers. 0 to send):3
Send Data(Only numbers. 0 to send):2
Send Data(Only numbers. 0 to send):1
Send Data(Only numbers. 0 to send):8
Send Data(Only numbers. 0 to send):7
Send Data(Only numbers. 0 to send):6
Send Data(Only numbers. 0 to send):9
Send Data(Only numbers. 0 to send):10
Send Data(Only numbers. 0 to send):0
Dimitri Comrade, 3 has been deleted from the dataset.

Dimitri Comrade, 2 has been deleted from the dataset.
Dimitri Comrade, 1 has been deleted from the dataset.
Dimitri Comrade, 7 has been deleted from the dataset.
Dimitri Comrade, 6 has been deleted from the dataset.
Dimitri Comrade, 8 has been deleted from the dataset.
['4', '8', '9', '10']
PS C:\Users\MehrF\OneDrive\Desktop\N+>

Windows PowerShell
PS C:\Users\MehrF\OneDrive\Desktop\N+> python stalin_client.py
Put in your name, Soldier: Nikolai
Send Data(Only numbers. 0 to send):101
Send Data(Only numbers. 0 to send):200
Send Data(Only numbers. 0 to send):10
Send Data(Only numbers. 0 to send):63
Send Data(Only numbers. 0 to send):6000
Send Data(Only numbers. 0 to send):2000
Send Data(Only numbers. 0 to send):0
Nikolai Comrade, 10 has been deleted from the dataset.

Nikolai Comrade, 63 has been deleted from the dataset.
Nikolai Comrade, 2000 has been deleted from the dataset.
['101', '200', '6000']
PS C:\Users\MehrF\OneDrive\Desktop\N+>
```

Test 02: 127.0.66.1 Port: 4066

Anna: 127.0.66.1 Port: 63674 Output: [10]

Dimitri: 127.0.66.1 Port: 63676 Output: [4, 8, 9, 10]

Nikolai: 127.0.66.1 Port: 63677 Output: [101, 200, 6000]