

Miscellaneous

Python Script: (To check if there are any duplications)

To check if there are no duplications in the Consistent sub-Graphs generated , we have developed python script which checks if there are any duplicate graphs

*******Python SCRIPT*******

```
c=set()
with open('F:/Algorithms/graphtest.txt') as f:
    for line in f:
        if "union" not in line:
            continue
        #print(line)
        numbers = tuple(sorted(map(int, line[line.index('[')+1: line.index(")]").split(",
))))
        if numbers not in c:
            c.add(numbers)
        else:
            print("found repeats: "+str(numbers))
```

Results:

Found Zero Duplicate Sub Graphs generated when ran on the file.

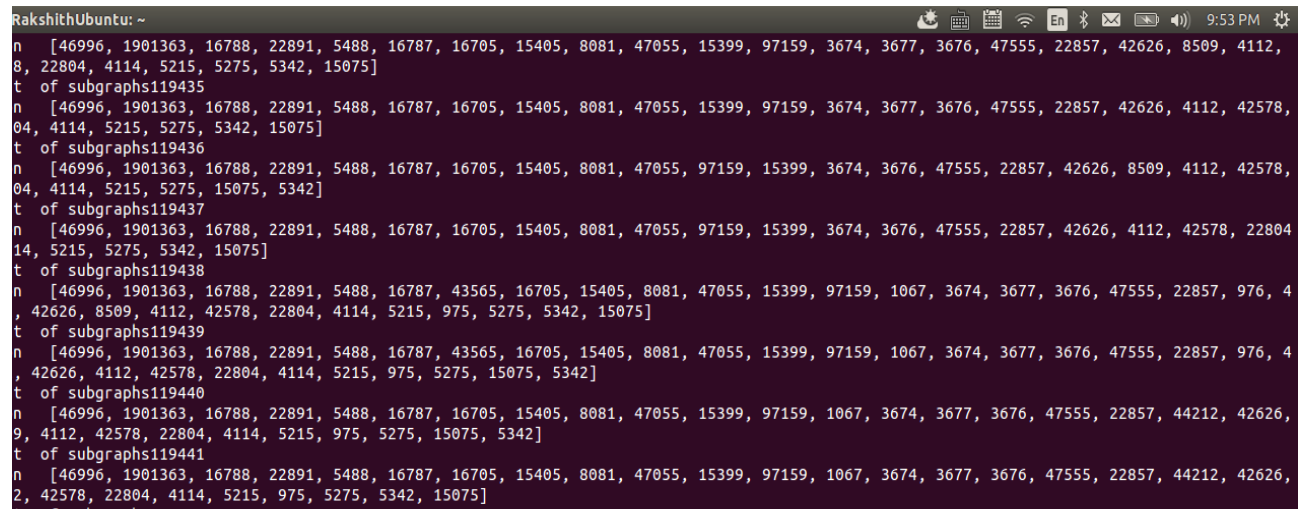
Big Red II :

We executed our code on Indiana University Big Red - II high-performance parallel computing. However since exclusive access is not allowed , we could not execute completely.

*****SCRIPT*****

```
#!/bin/bash
#PBS -l nodes=2:ppn=32:dc2
#PBS -l walltime=24:00:00
#PBS -l gres=ccm
module load ccm
cd /N/home/b/s/bsairamr/BigRed2/ConsistentSubGraph/src/com/B503/
ccmrun javac *.java
cd ../..
ccmrun java com/B503/DAG
```

*****SCRIPT*****



RakshithUbuntu: ~

```
n [46996, 1901363, 16788, 22891, 5488, 16787, 16705, 15405, 8081, 47055, 15399, 97159, 3674, 3677, 3676, 47555, 22857, 42626, 8509, 4112, 8, 22804, 4114, 5215, 5275, 5342, 15075]
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t of subgraphs119441
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t of subgraphs119442
```