

# CODIGO EN PYTHON

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from random import choice
from collections import Counter
from copy import deepcopy
import time
start_time = time.time()

g = {}

with open('data_kargerMinCut.txt', 'r') as grafoInput:

    for line in grafoInput:
        ints = [int(x) for x in line.split()]
        g[ints[0]] = Counter(ints[1:])

def kargerMinCut(g):
    while len(g) > 2:

        u = choice(g.keys())

        grafoU = g[u]
        v = grafoU.most_common(1)[0][0]

        grafoV = g[v]

        del g[v]
        del grafoV[u]
        del grafoU[v]

        grafoU.update(grafoV)

        for w in grafoV:
            grafoW = g[w]
            grafoW[u] += grafoW[v]
            del grafoW[v]

    return g.itervalues().next().most_common(1)[0][1]

cortes = [kargerMinCut(deepcopy(g)) for x in range(5)]
```

```
print min(cortes), cortes  
print("--- %s seconds ---" % (time.time() - start_time))
```