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ECE 528
Class project

The purpose of this project is to implement the Kl partitioning in software. I decided to use
python. The software takes in an input, which describes a graph with nodes and edges. Below are
instructions on how to run the software.

The algorithm was applied to 2 small examples (shown below)by hand and then the results are
shown with the software. Both hand and software results match.

The output of the class example graph is also shown below. The final cost of partition is 9.


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Instructions:

source.py tested in python 2.7.10 and it should work with most versions
of python but is not guaranteed. It will not work with python 2.4.3, which is
installed in the MCECS Linux servers. In this case run source_for_mcecs.py.
to find out which version of python is installed in the system type "python -V"

In order to run from command line in Linux or in Mac terminal type. (assuming
source.py and input are in the present working directory)

python source.py  inputfile [-f]

Or for mcecs

python source_for_mces.py inputfile [-f]

The ,[-f] option is optional it should only be used for large files with large
node count.

Example:
python source.py KLinput20F2015.txt

this will run the class example

python source.py input_2851nodes.txt -f
this will run the file with 2851 node (of course you need to name it this in
your system) with the fast option
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