Project 1: Bayesian Structure Learning

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1. Algorithm Description

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

2. Graphs

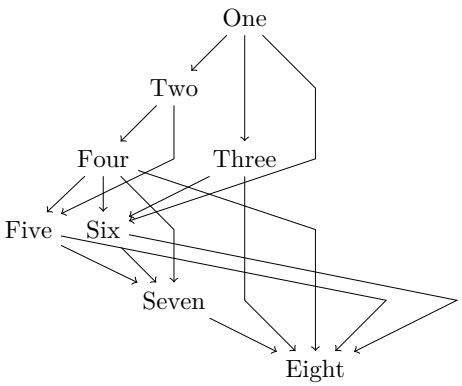

Figure 1: Graph caption.

3. Code

```
import sys

import networkx


def write_gph(dag, idx2names, filename):
    with open(filename, 'w') as f:
        for edge in dag.edges():
            f.write("{}, {}\n".format(idx2names[edge[0]], idx2names[edge[1]]))
```

```
def compute(infile, outfile):
    # WRITE YOUR CODE HERE
    # FEEL FREE TO CHANGE ANYTHING ANYWHERE IN THE CODE
    # THIS INCLUDES CHANGING THE FUNCTION NAMES, MAKING THE CODE MODULAR,
    BASICALLY ANYTHING
    pass


def main():
    if len(sys.argv) != 3:
        raise Exception("usage: python project1.py <infile>.csv <outfile>.gph
    ")

    inputfilename = sys.argv[1]
    outputfilename = sys.argv[2]
    compute(inputfilename, outputfilename)


if __name__ == '__main__':
    main()
```