

A graph is defined by its vertices and edges. The format is as follows:

Line 1:

NV NE

NV = number of vertices

NE = number of edges

Lines 2 to NV+1:

I X Y

I = index of the vertex

X,Y = cartesian coordinates of the vertex (since you will probably want to display the graph) - these may be integers or reals.

Lines NV+2 to NV+2+NE-1

I1 I2

I1 = index of the vertex on one end of the edge

I2 = index of the vertex on the other end of the edge

Simple Example of a graph with 3 vertices connected in a triangle.

```
3 3
0 2.5 1.5
1 4.0 4.0
2 5.5 1.5
0 1
0 2
1 2
```