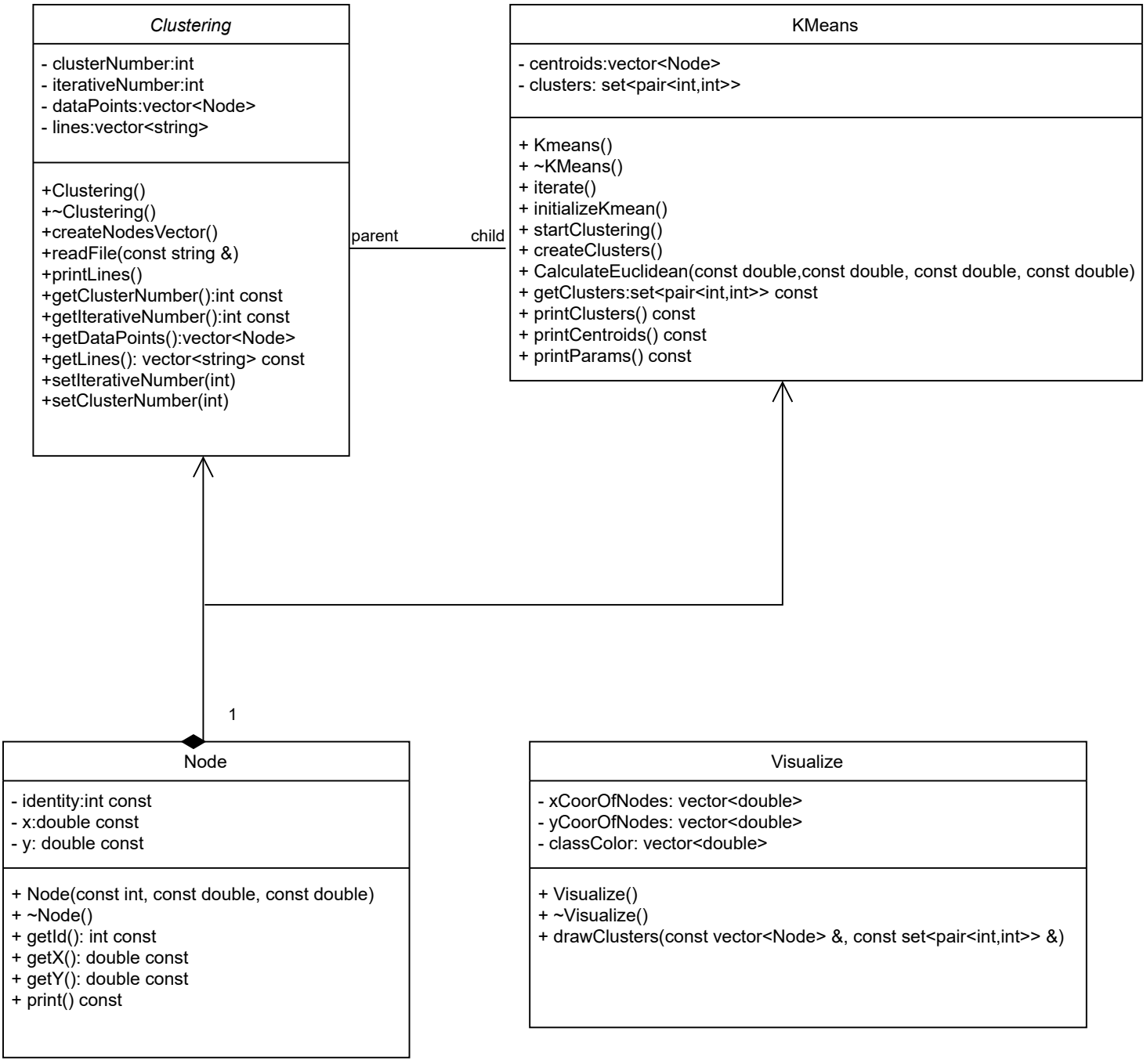
UML Diagram


Clustering
- clusterNumber:int
- iterativeNumber:int
- dataPoints:vector<Node>
- lines:vector<string>
+Clustering()
+~Clustering()
+createNodesVector()
+readFile(const string &)
+printLines()
+getClusterNumber():int const
+getIterativeNumber():int const
+getDataPoints():vector<Node>
+getLines(): vector<string> const
+setIterativeNumber(int)
+setClusterNumber(int)
parent
child
KMeans
- centroids:vector<Node>
- clusters: set<pair<int,int>>
+ Kmeans()
+ ~KMeans()
+ iterate()
+ initializeKmean()
+ startClustering()
+ createClusters()
+ CalculateEuclidean(const double,const double, const double, const double)
+ getClusters:set<pair<int,int>> const
+ printClusters() const
+ printCentroids() const
+ printParams() const
1
Node
- identity:int const
- x:double const
- y: double const
+ Node(const int, const double, const double)
+ ~Node()
+ getId(): int const
+ getX(): double const
+ getY(): double const
+ print() const
Visualize
- xCoorOfNodes: vector<double>
- yCoorOfNodes: vector<double>
- classColor: vector<double>
+ Visualize()
+ ~Visualize()
+ drawClusters(const vector<Node> &, const set<pair<int,int>> &)