

## ***AbstractGraph***

```
+addArc(arc:const arc_t  
+rmArc(src:vertex_t,dest:vertex_t): void  
+rmAllArc(): void  
+updateArc(arc:const arc_t  
+increaseWeight(src:vertex_t,dest:vertex_t,  
w:weight_t): weight_t  
+getNbrVertices(): uint  
+toString(): string  
+getSuccessors(vertex:vertex_t): list<neighbor_t>  
+getPredecessors(vertex:vertex_t): list<neighbor_t>  
+getWeight(src:vertex_t,dest:vertex_t): weight_t
```



## **AdjacencyListGraph**

```
+successors: list<neighbor_t> *  
+predecessors: list<neighbor_t> *  
+nbr_vertices: uint
```

## **MatrixGraph**

```
+matrix: weight_t **  
+nbr_vertices: uint
```