Primitive Operations:

addVertix: value T, key int ---> void
addAdyacent: vertex int, father int ---> void
addEdge: keyFrom int,keyTo int,weight int ---> void
deleteVertix key int ---> void
deleteAllRef: key int ---> void
BFS: keyRoot int ---> void
DFS: ---> void
dfsVisit: ---> void
getHashSize: ---> int
proveConec: ---> int
Dljkstra: source int ---> String
Floyd-Warshall: graph Grafo[][---> String
Prim: graph Grafo ---> String
Kruskal: graph Grafo ---> String



Kruskal{Grafo graph} ---> String

"find the minimum spanning tree from a graph "

{pre : Graph ≠ null}

{pos: minimum spanning tree}

addVertix{T value, int Key}> void	deleteVertix{int Key}> void	addEdge{int KeyFrom, int keyTo,int peso }> void
"Creates an especific Vertex and add it into the vertex ArrayList"	"Deletes the Vertex with the specific key from the vertex ArrayList"	"Add a certain edge"
{pre : The vertex to add is not into the vertexes ArrayList"}	{pre : The vertex to delete is into the vertexes ArrayList"}	{pre: "the vertexes connected by the edge exist at the vertexes ArrayLis
{pos: Vertex added}	{pos : Vertex deleted}	{pos:true}
deleteAllRef{int Key}> void	BFS{int KeyRoot}> void	Dijkstra{int source}> String
"Deletes all vertexes"	"Verify connectivity from the root vertex to its neighbors"	"Returns the with less weight from the source to a certain vertex"
{pre:none"}	{pre : Graph ≠ null"}	{pre : Graph ≠ null"}
{pos : Vertex ArrayList == null}	{pos : BF tree}	{pos : path with less weight}
DFS()> void	gertHashSize()> int	floyd-Warshall{Grafo[][] graph}> String
"Cover all the graph vertexes"	"Returns the vertexes Array Size"	"Find the shortest path between all the pairs of vertexes in a weighted graph"
{pre : Graph ≠ null"}		weighted graph
{pos : DF forest}		{pre: Graph ≠ null} {pos: shortest path between all the pairs of vertexes}
		(pus, shortest pain between an me pairs of vertexes)
provConex{}> int	addAdyacent{int vertex,int father}> void	prim{Grafo graph}> String
"Check if the graph is strongly connected"	"Add to the vertex father and adjacent vertex"	"Find the minimum spanning tree from a graph "
{pre : edge ≠ null, vertex ≠ null"}		{pre: Graph ≠ null
{pos:true}		{pos: minimum spanning tree}