CLASS GRAPH  
 INITIALIZING FUNCTION  
 nodes <- EMPTY ARRAY  
 edges <- EMPTRY DICTIONARY  
 ADD-VERTEX(value)  
 ADD value to the nodes array  
 ADD value to the dictionary, MAKING it EQUAL to en empty array  
 PRINT-VERTICES  
 RETURN nodes  
 ADD-EDGES(node1, node2)  
 IF node1 and node2 NOT IN nodes  
 ADD node1 and node2 to nodes  
 ADD node2 as a corresponding value to node1  
 ADD node1 as a corresponding value to node2