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Data: 1) a matrix where the pathways are in the columns and the
       genes inside the pathways are in the rows; 2) a data frame where
       the nodes are presented in the columns and the rows represent
       the edges
Result: a list of genes with high degree centrality for each pathway
Being (i \in N) & (i \in P) where P is a vector containing the genes inside
 a pathway of size k and N is an indirect graph of size m;
for all nodes i in N do
   calculate the degree centrality d_{iN};
end
for all nodes i in P do
   calculate the degree centrality d_{iP}, being the neighbors of i, i_{nq} \in P;
```

Calculate degree centrality expected d_{iE} in P if $d_{iE} < d_{iP}/k_p$ then $| i \leftarrow$ potential gene drivers of P; else

end

end

 $i \leftarrow i+1;$