

Function `travel_document(document d)` begin

Recognize that d as a visited object resource;

Add a node dc is a child node of d ; /* the node dc is a pseudo node represents the inter-relationship */

For each document d' which d hyperlink to begin

If the type of dc is NOT defined then begin

 Add a property `rdf:type` of dc which is a “type object” `rdf:bag`;

end;

Add relationship from d to d' with form of property of dc ;

if d' has not been visited begin

`travel_document(d')`;

end;

end;

end.

Function `MAIN(Web document set S)` begin /* S is input of web document set for discovering schema */

while there exists a document d in set S not be visited begin

`travel_document(d)`;

end;

end.