FAKULTÄT
FÜR !NFORMATIK

Faculty of Informatics

dbai

Semi-structured Data

8 - XPath (further examples)

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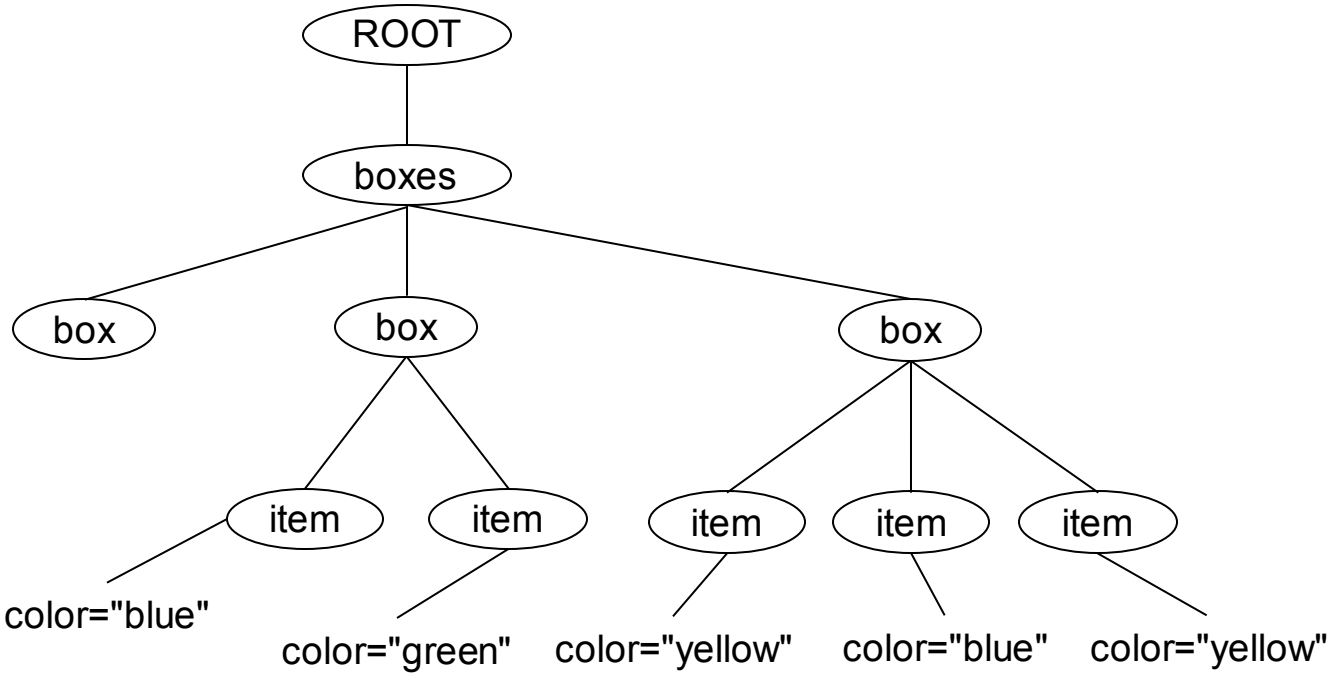
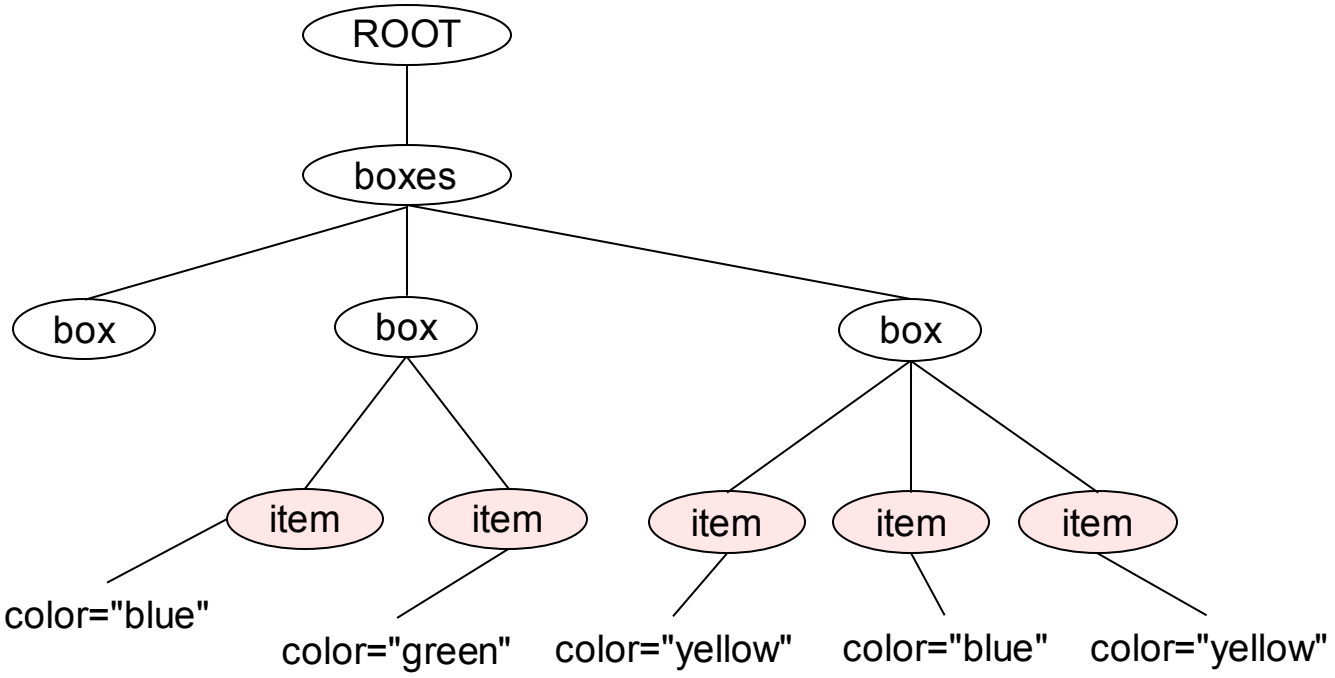
Further Examples



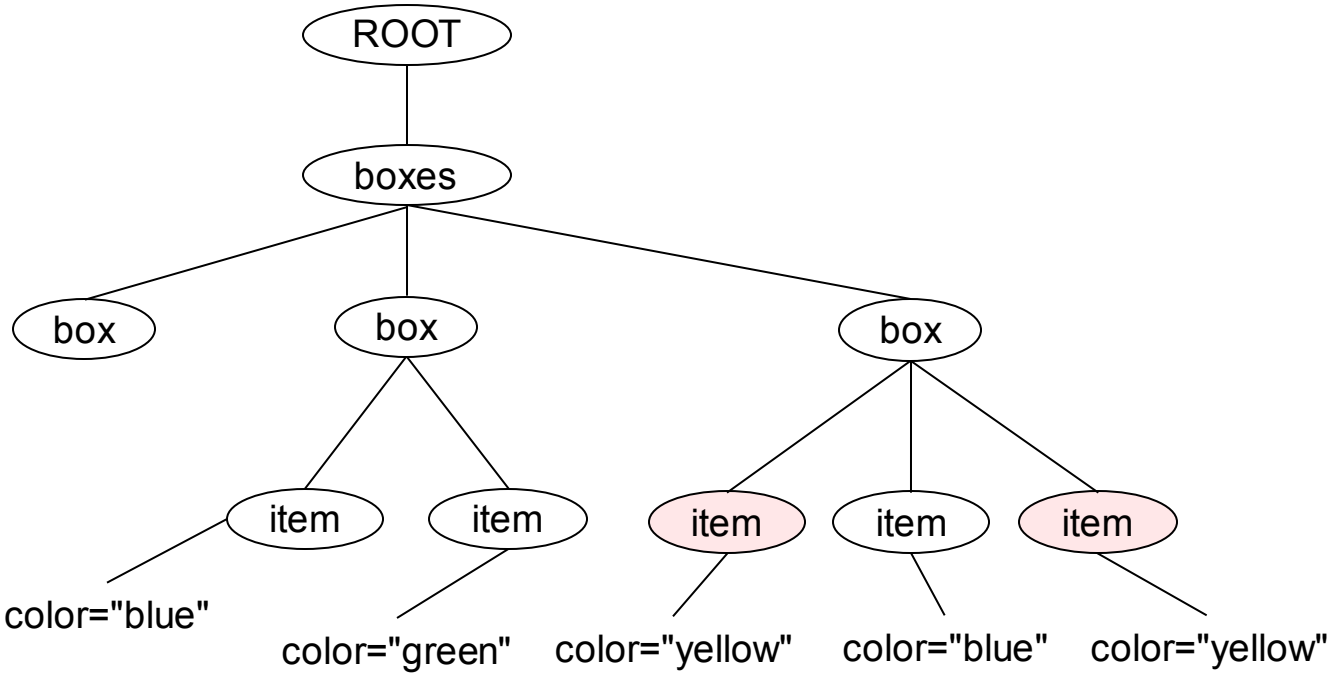
Further Examples



select all items in a box

//box/item

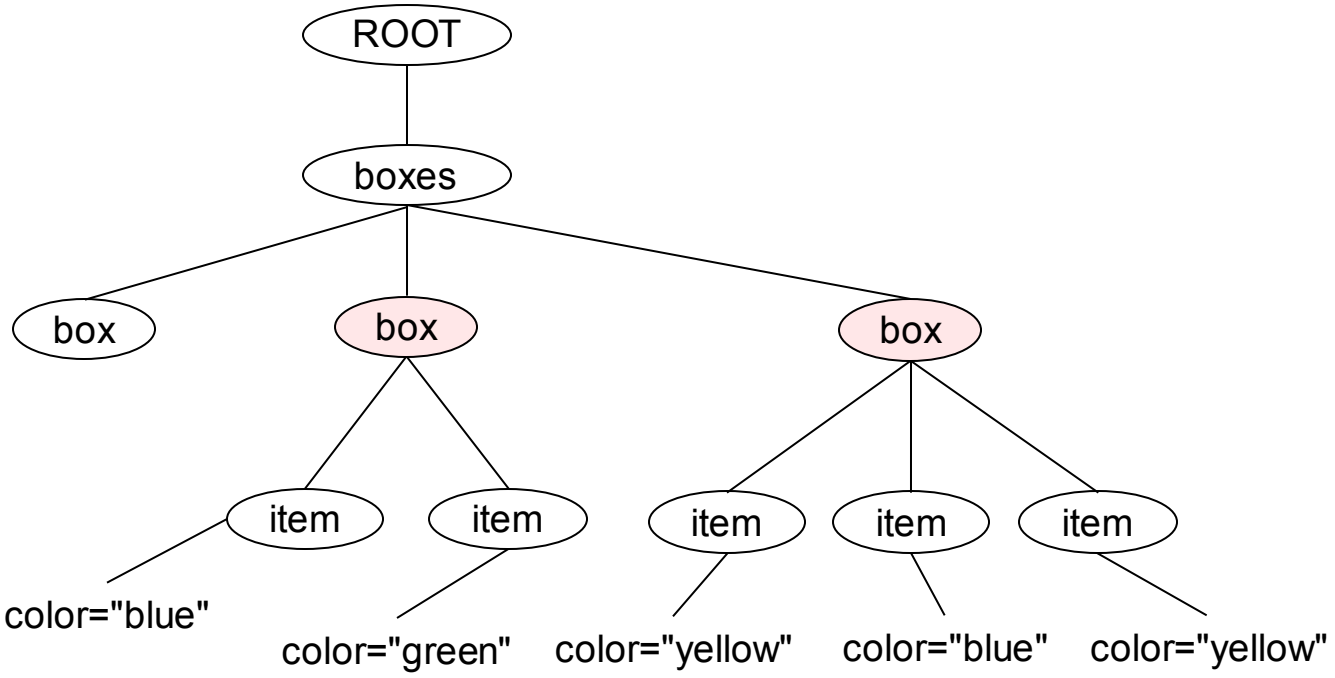
Further Examples



select yellow items in a box

//box/item[@color="yellow"]

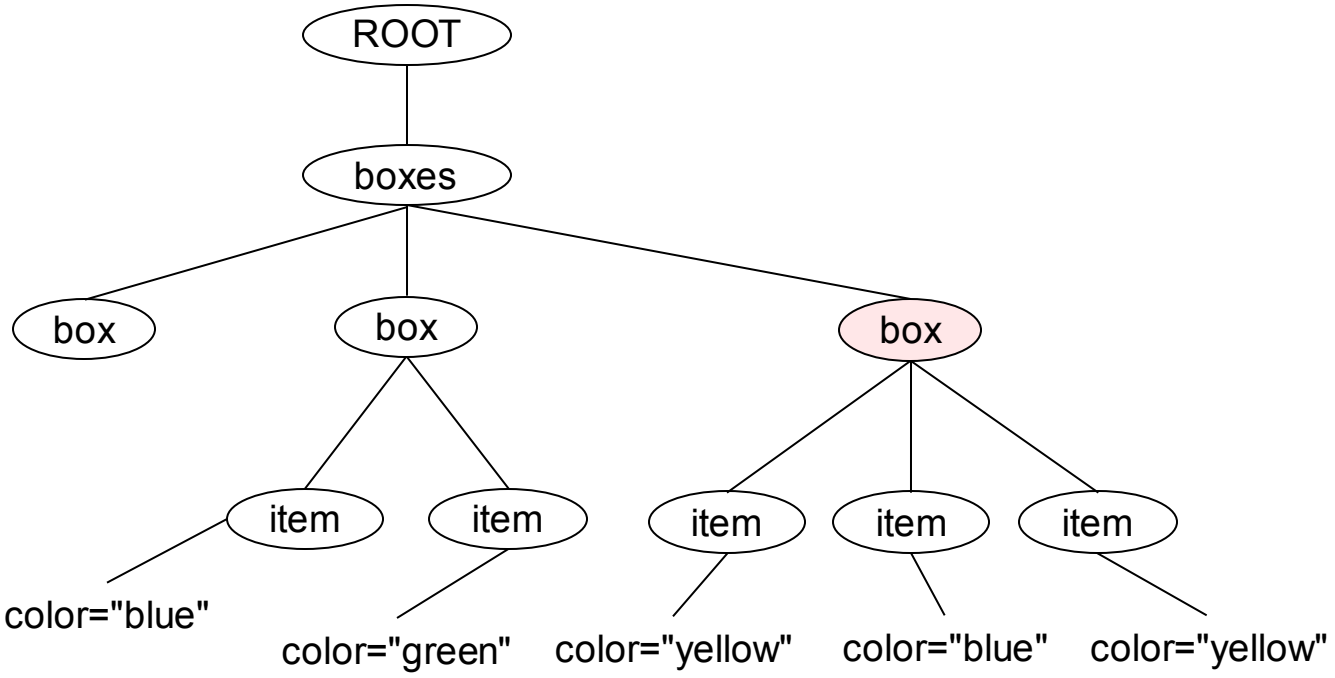
Further Examples



select all boxes with at least one item

//box[item]

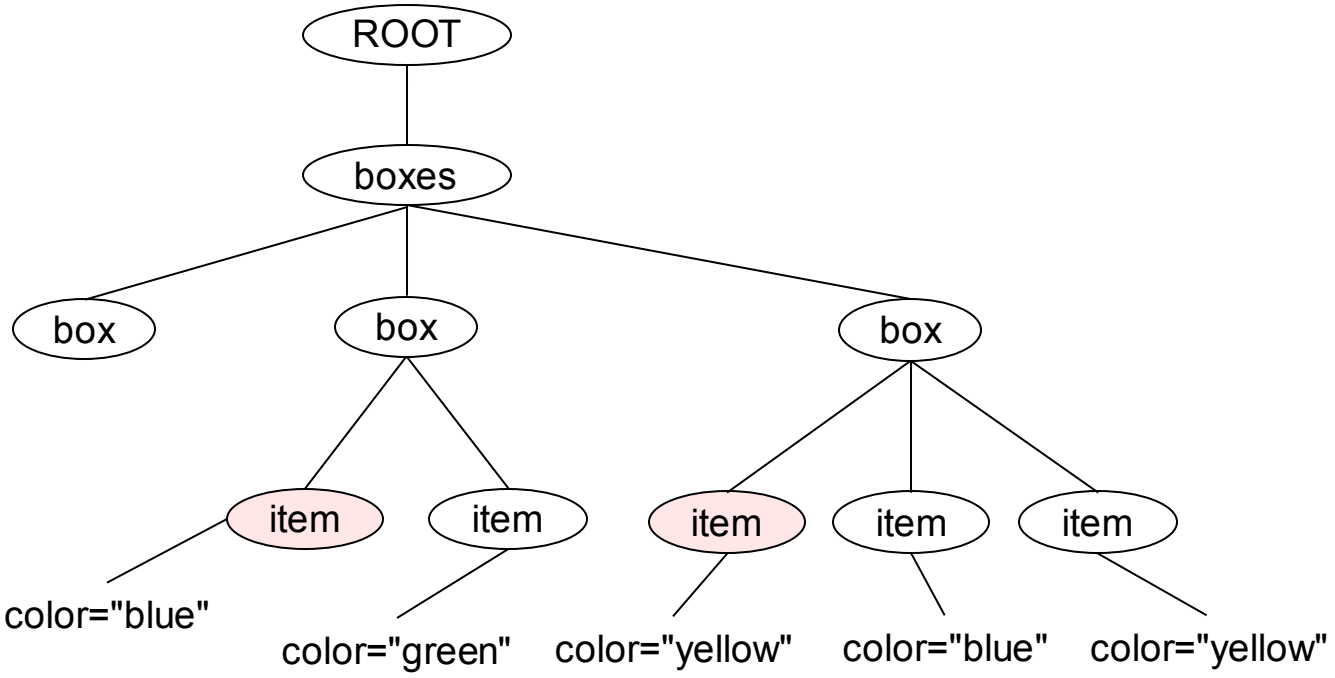
Further Examples



select all boxes with at least one yellow item

//box[item[@color="yellow"]]

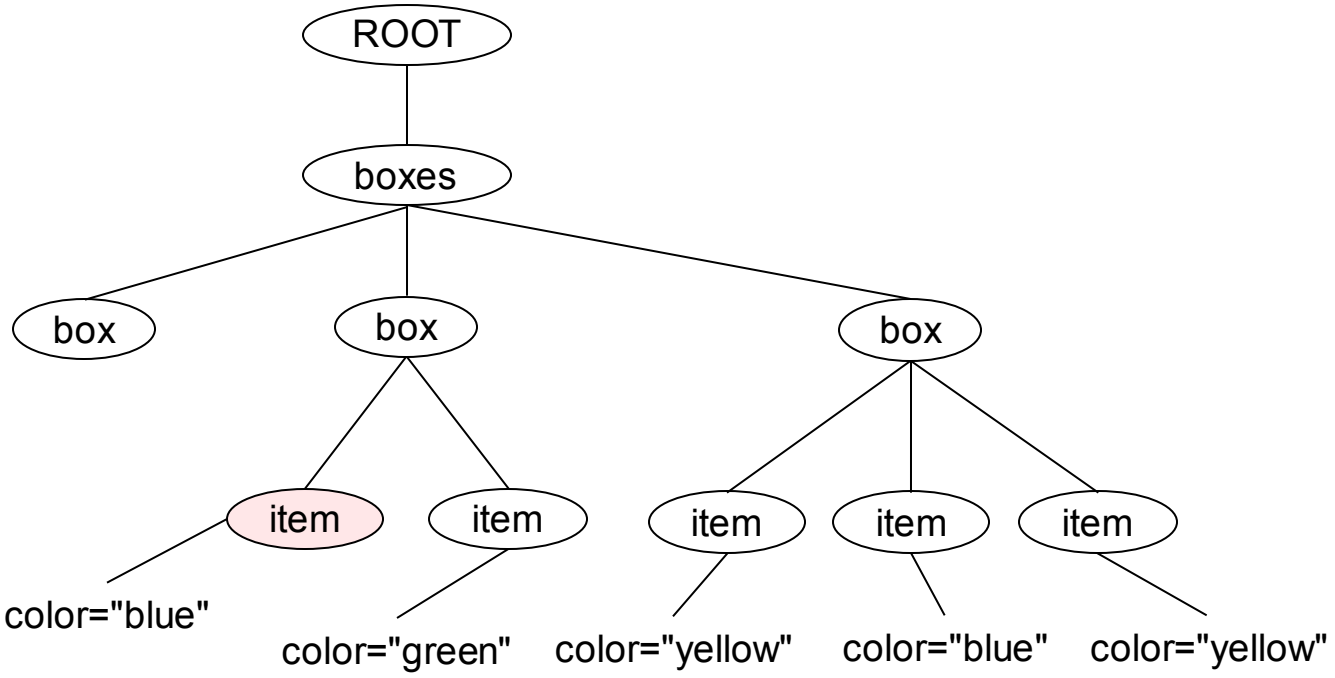
Further Examples



select all items that appear first in a box

//item[1]

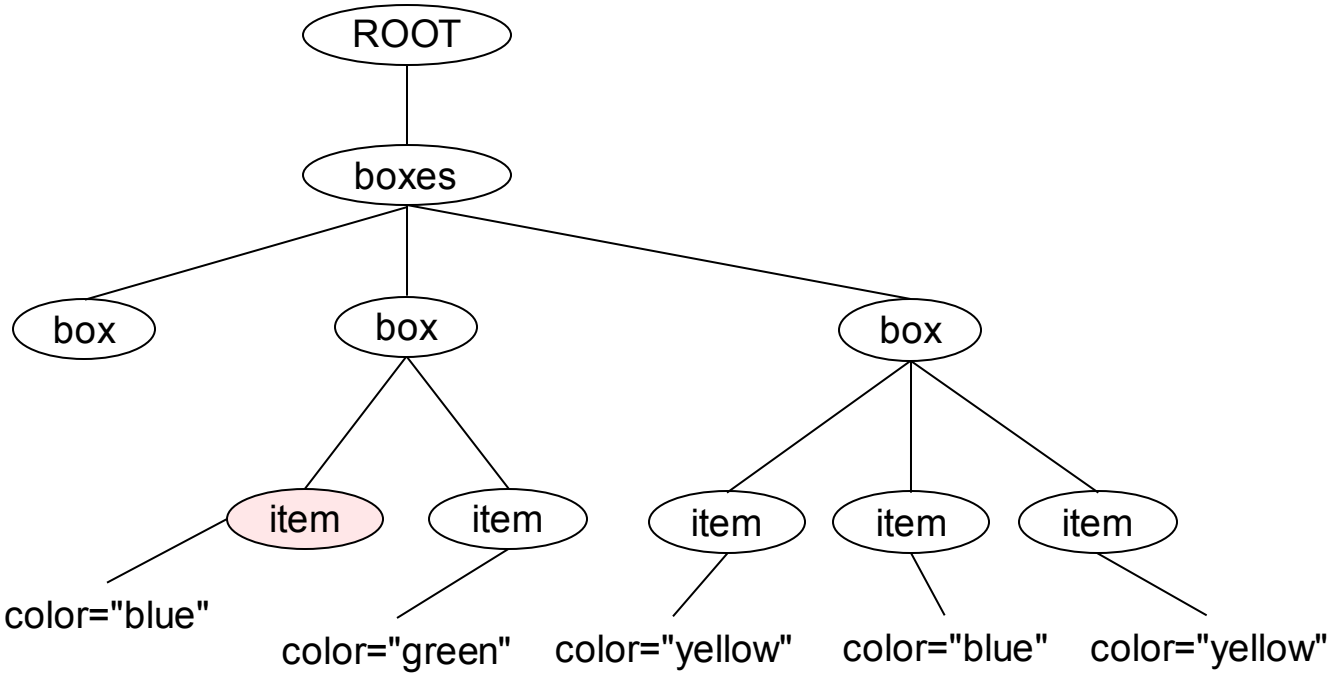
Further Examples



select the first item in the document

/descendant::item[1]

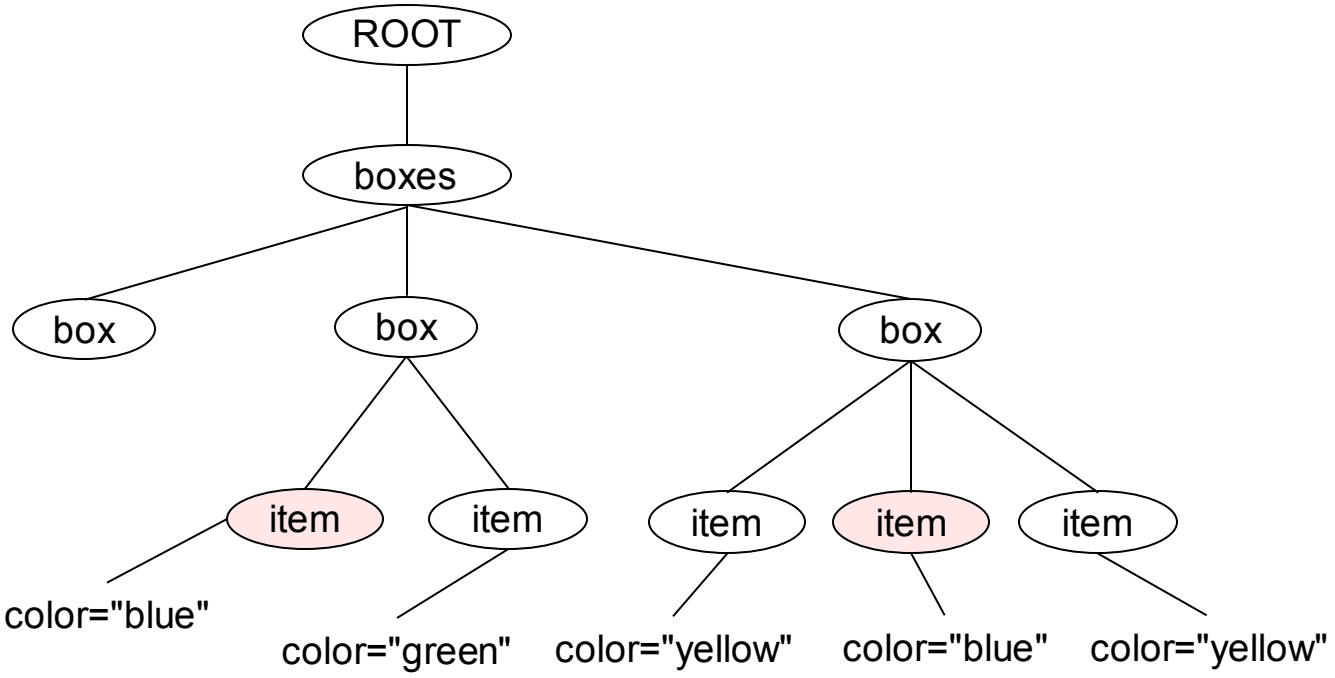
Further Examples



select all items that appear first in a box and are blue

//item[1][@color="blue"]

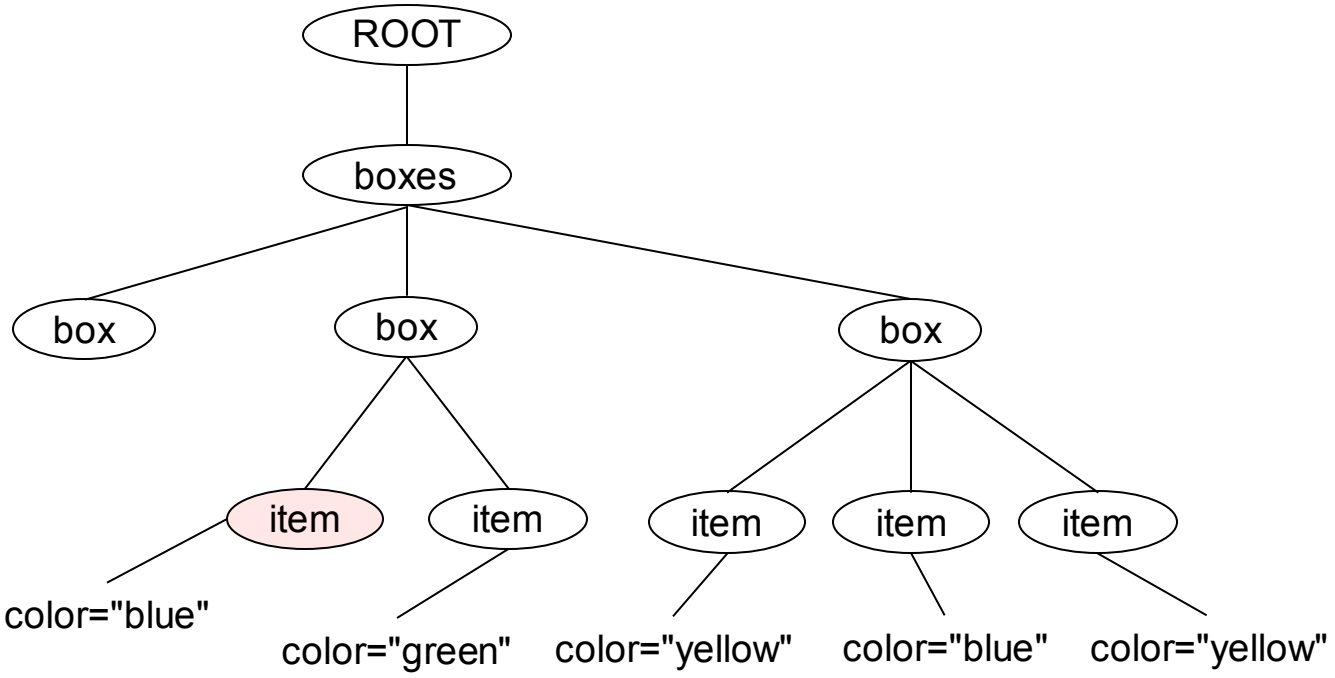
Further Examples



select the first occurrence of a blue item in a box

//item[@color="blue"][1]

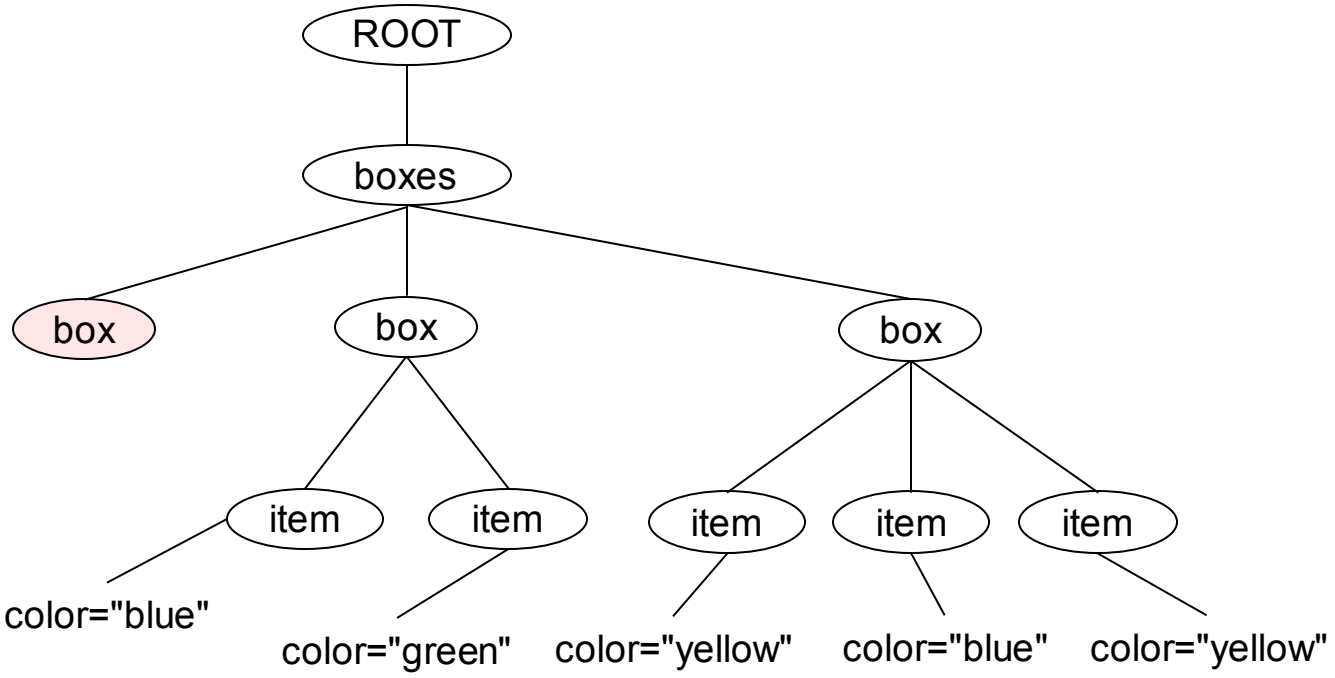
Further Examples



select the first item of the first non-empty box

//box[item][1]/item[1]

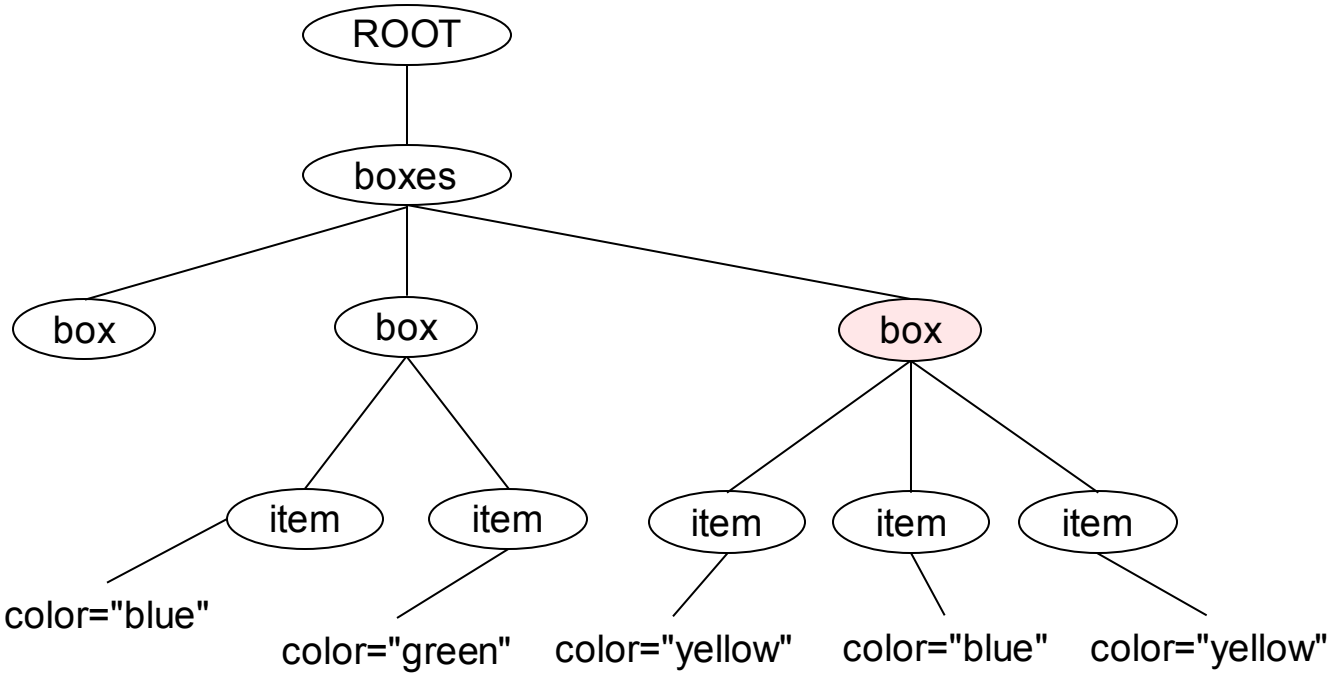
Further Examples



select all empty boxes

//box[not(*)]

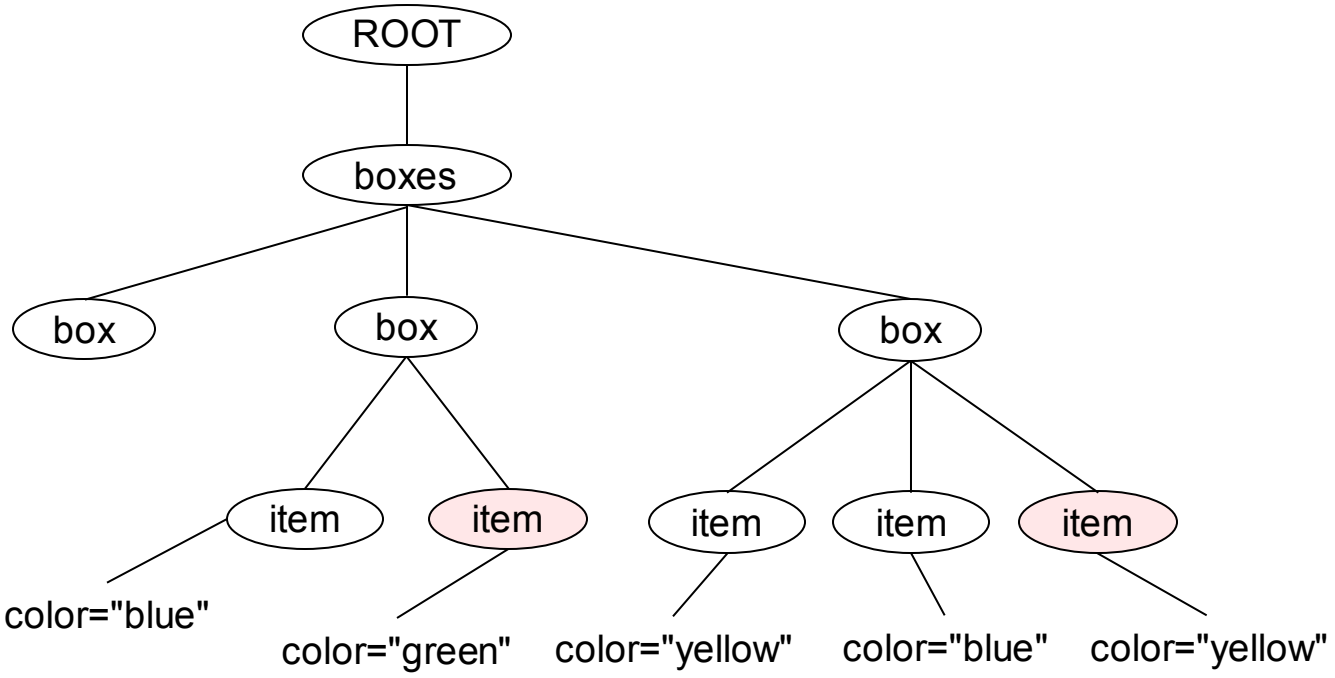
Further Examples



select all boxes with more than two items

```
//box[count(item) > 2]
```

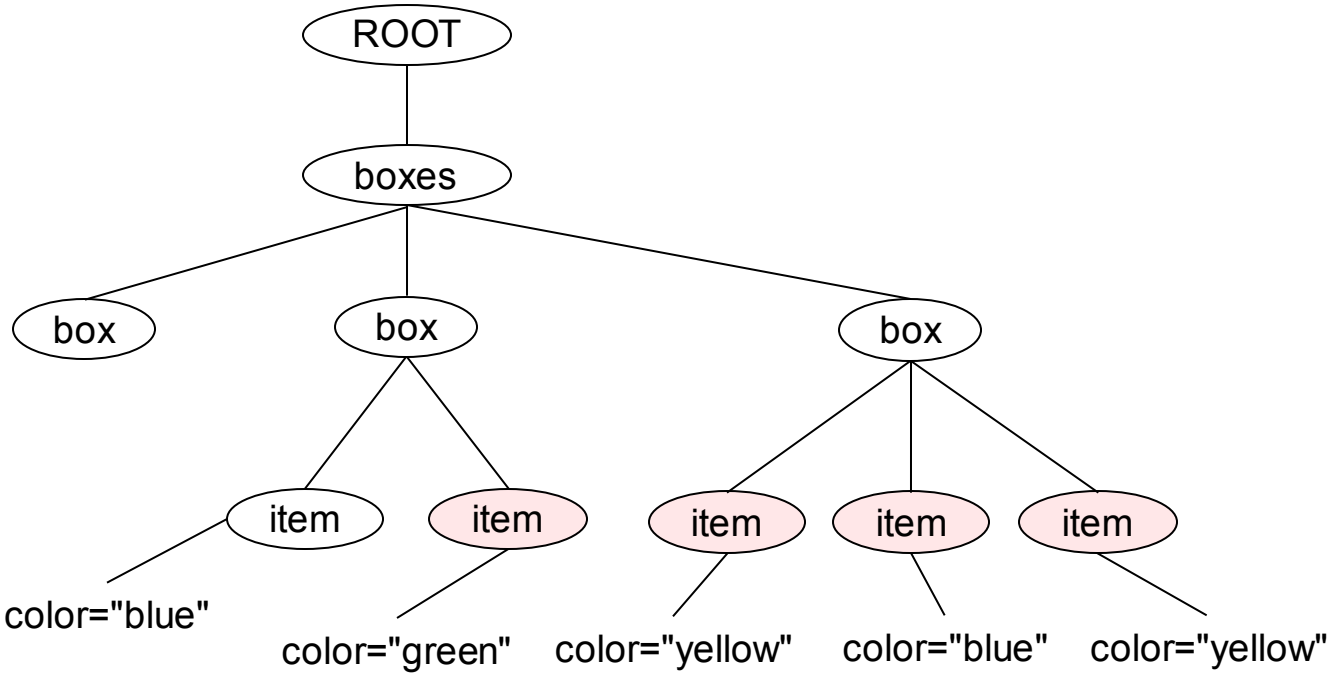
Further Examples



in each box, select all items that follow a blue item

//item[@color="blue"]/following-sibling::item

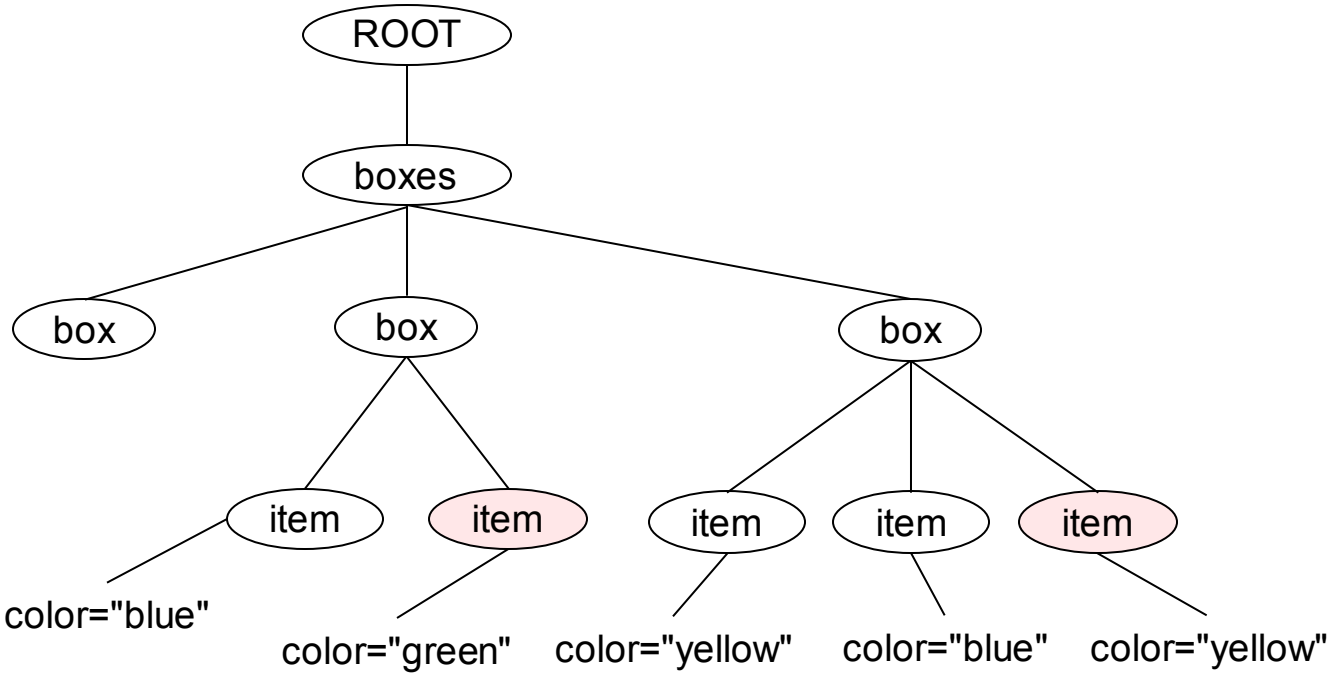
Further Examples



select all items in the document that appear after a blue item

//item[@color=“blue”]/following::item

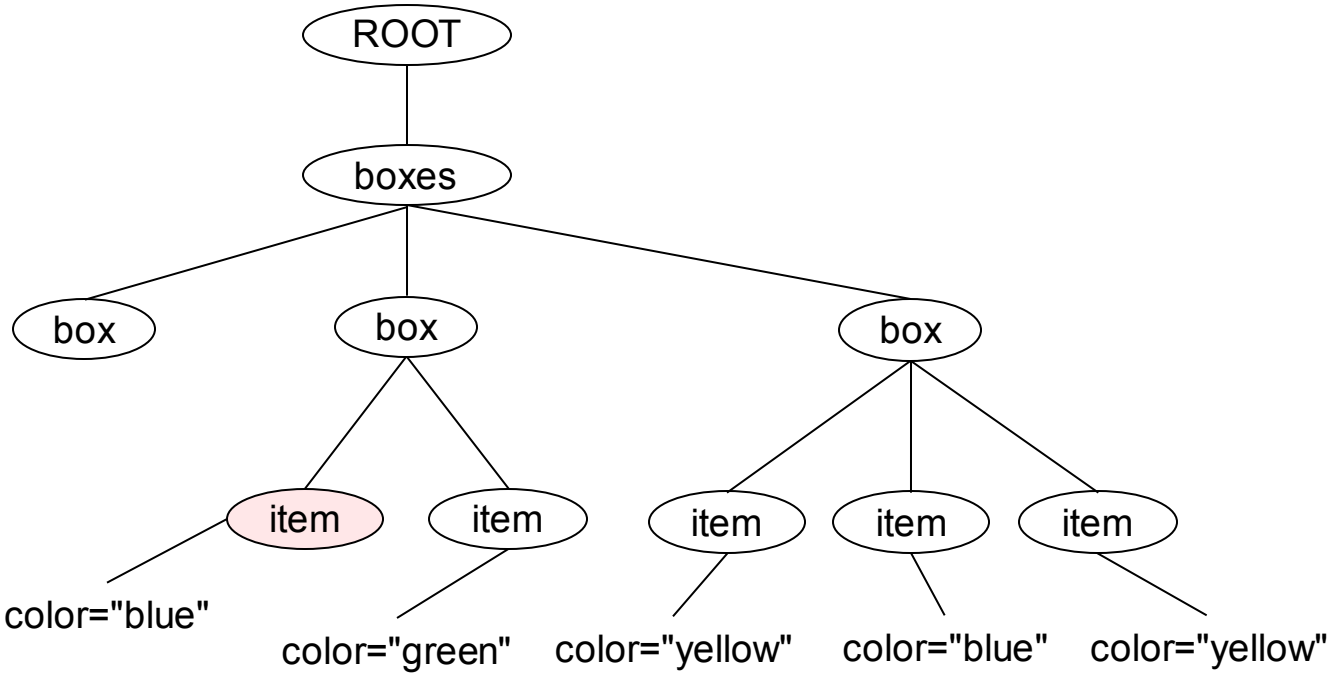
Further Examples



select the first item that follows a blue item

//item[@color=“blue”]/following::item[1]

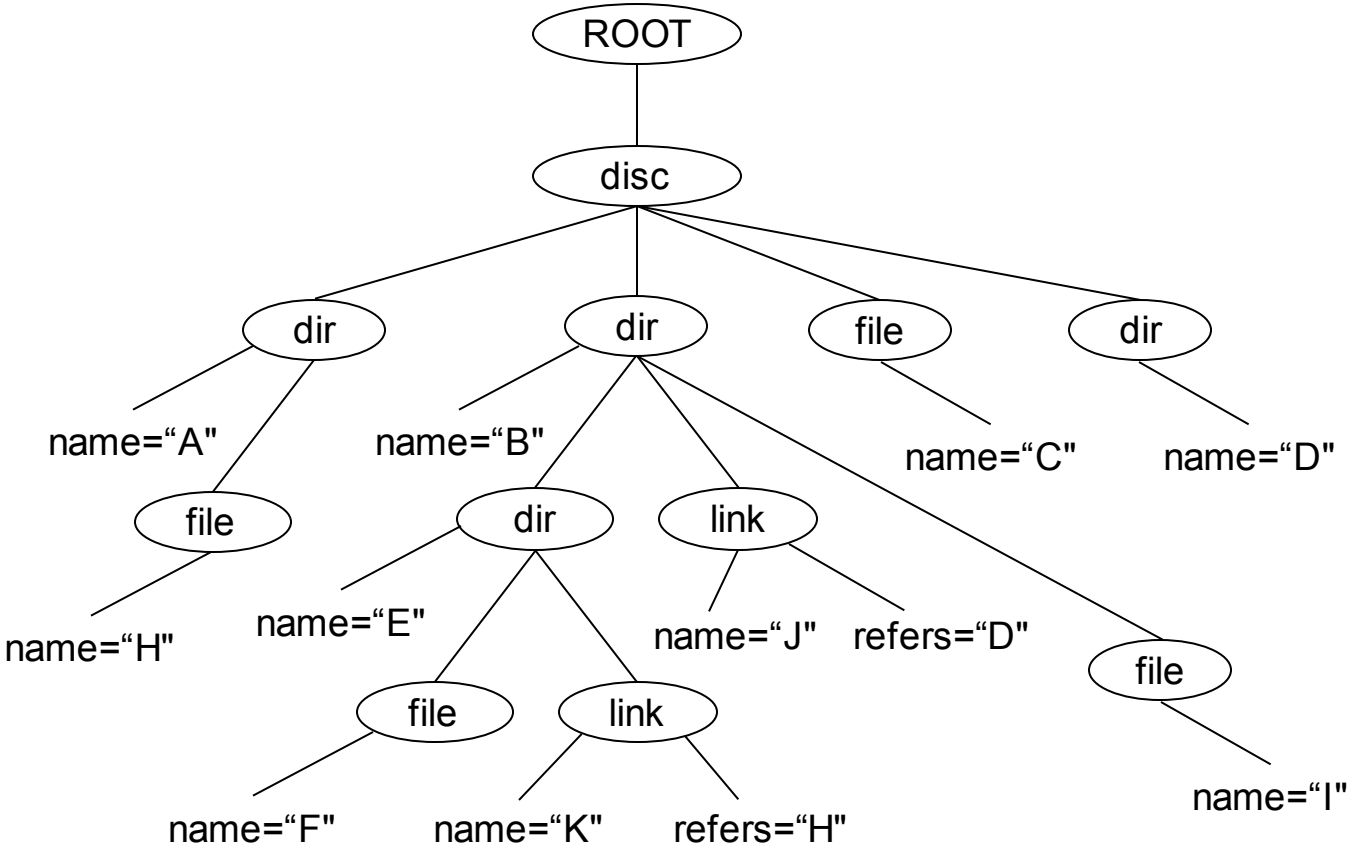
Further Examples



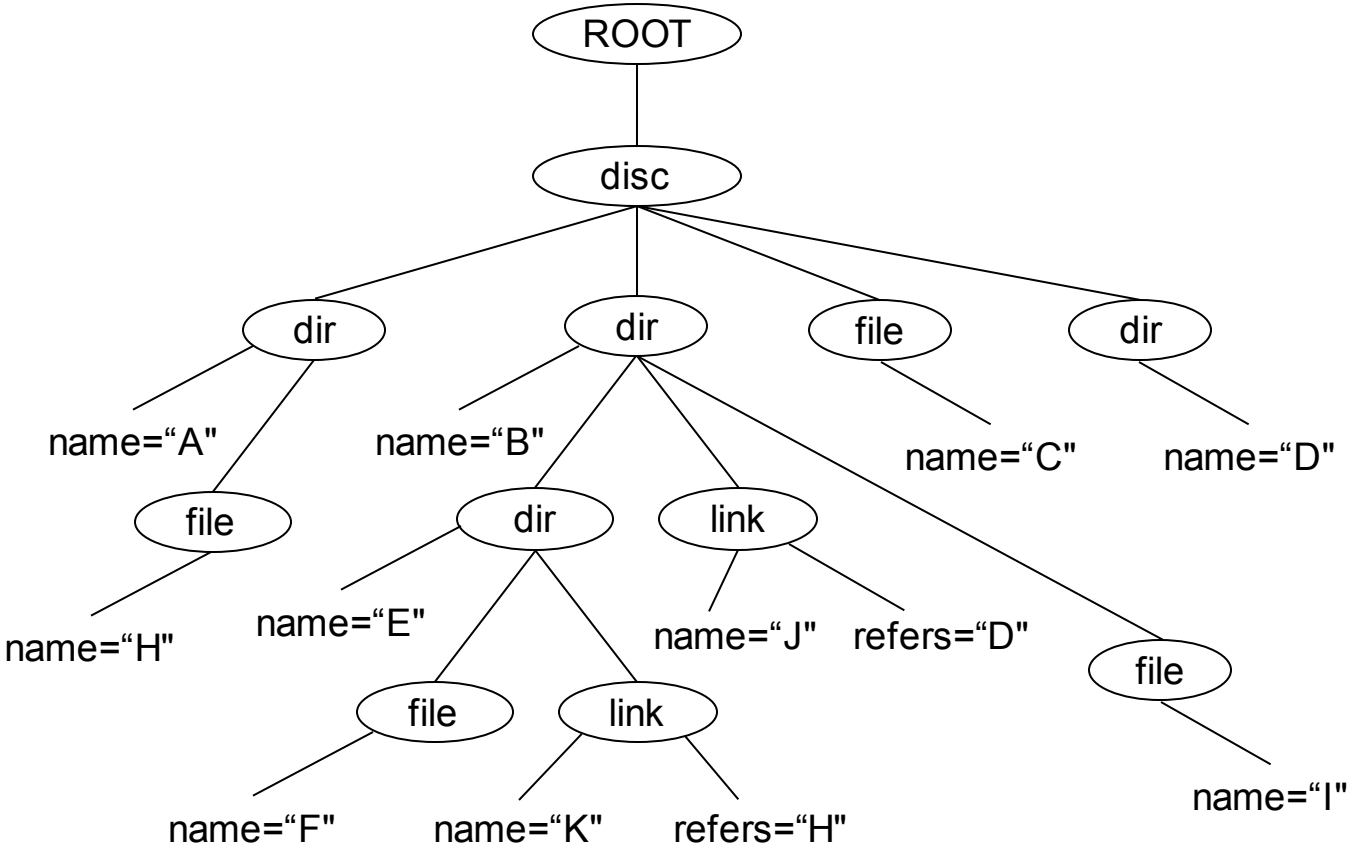
select the first blue item in the document

//box[item[@color="blue"]][1]/item[@color="blue"][1]

Further Examples



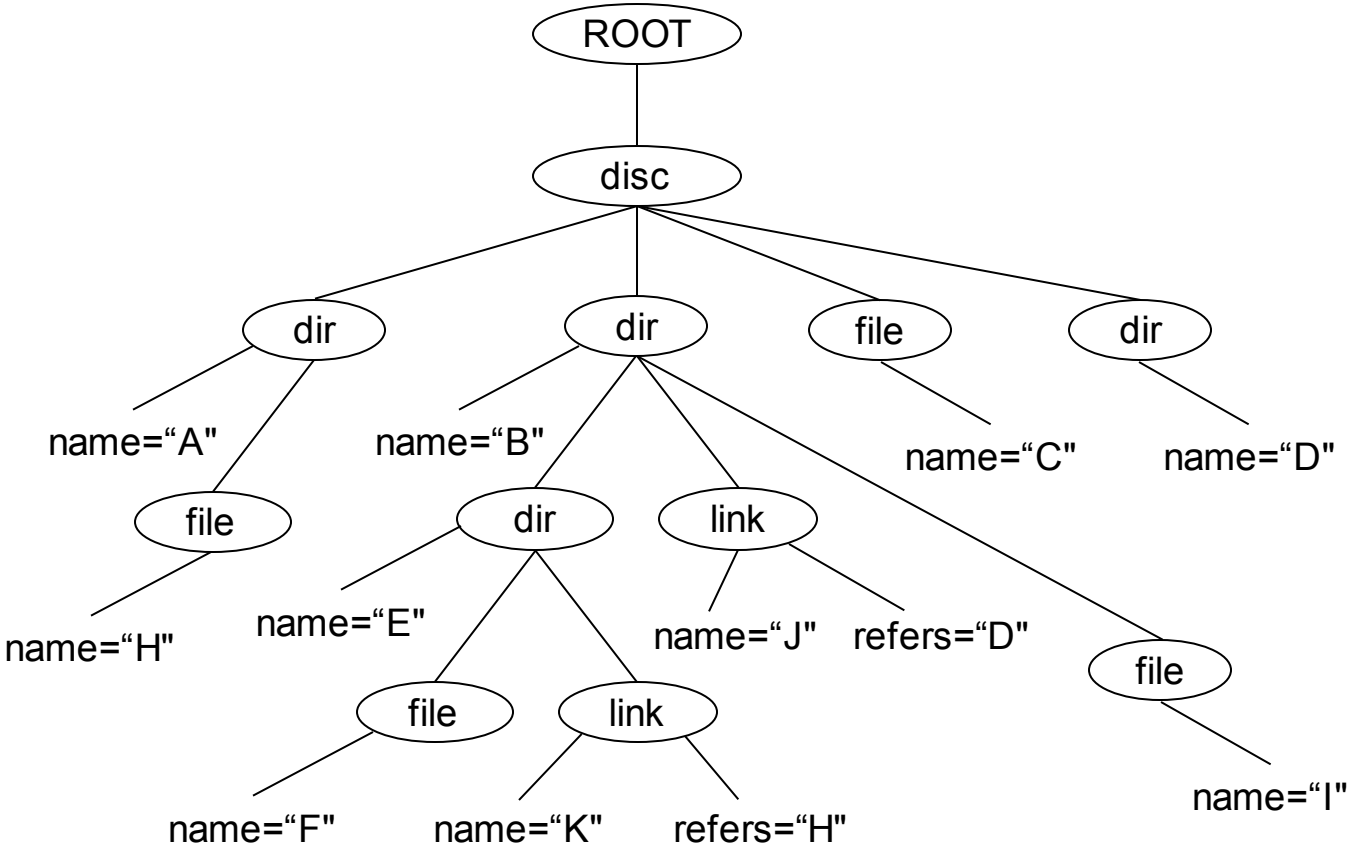
Further Examples



//dir[@name="B"]//file

select all files under directory B

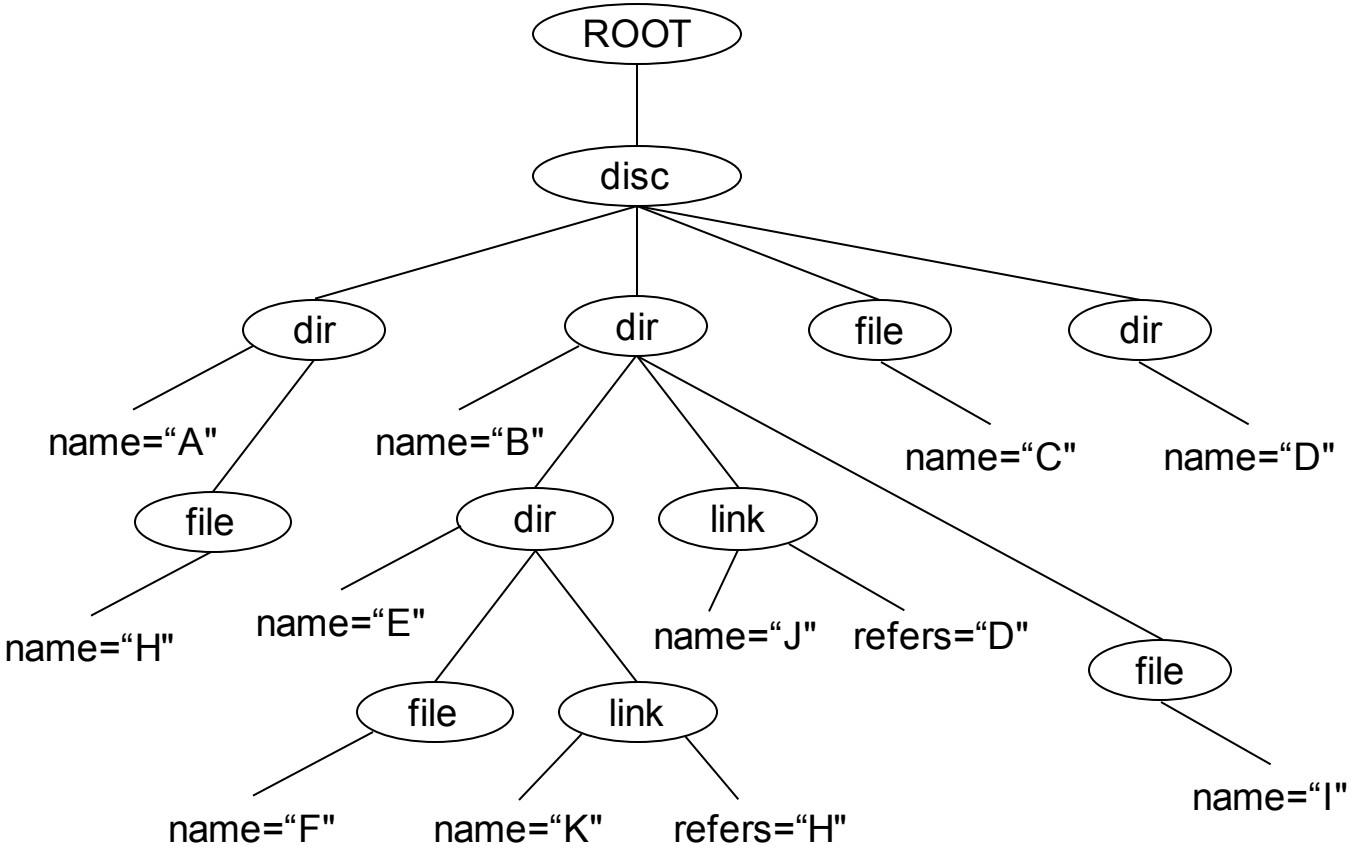
Further Examples



//dir[@name="B"]//(file | dir)

select all files and directories under directory B

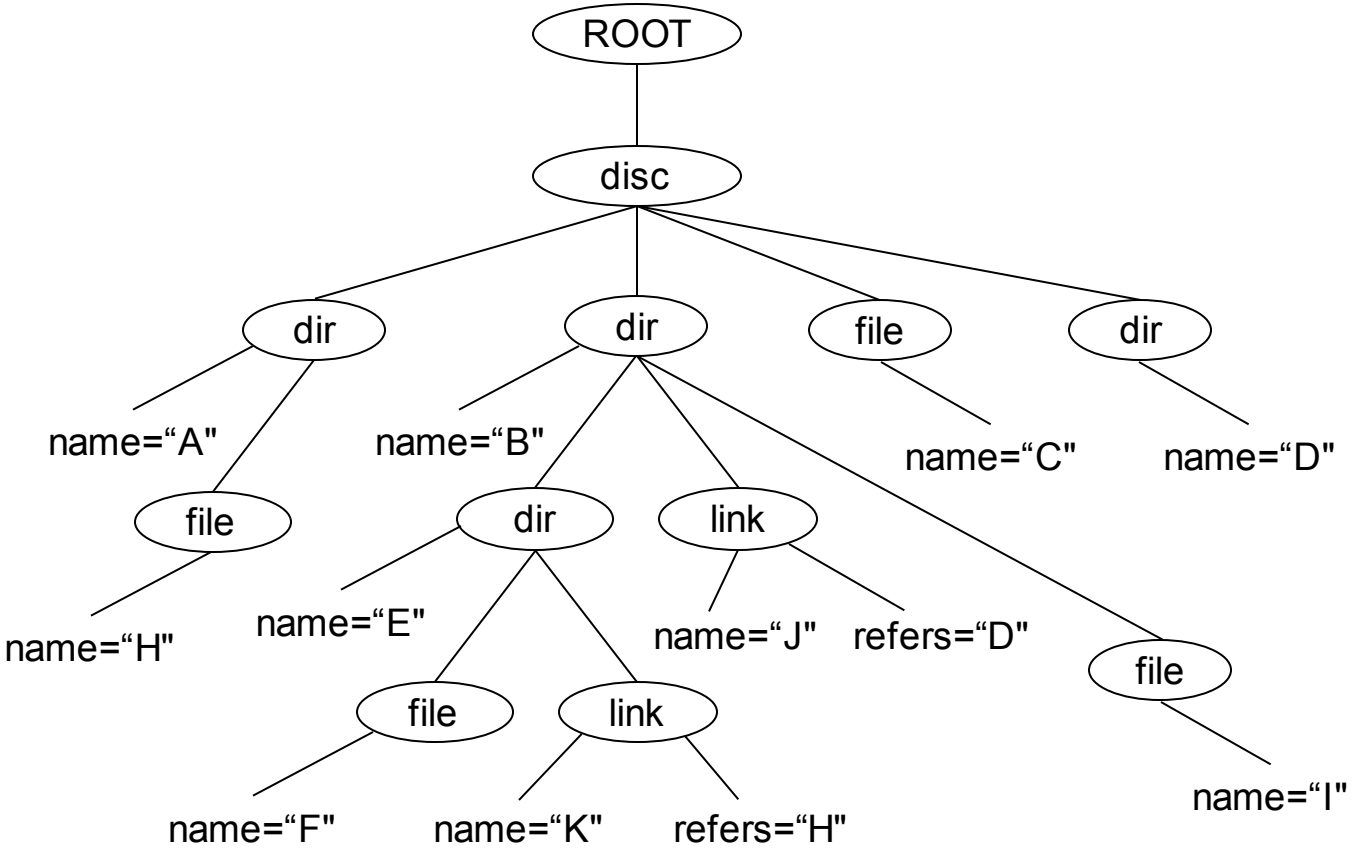
Further Examples



count(//dir[@name="B"]//(file | dir)) **3**

give me the number of files and directories under directory B

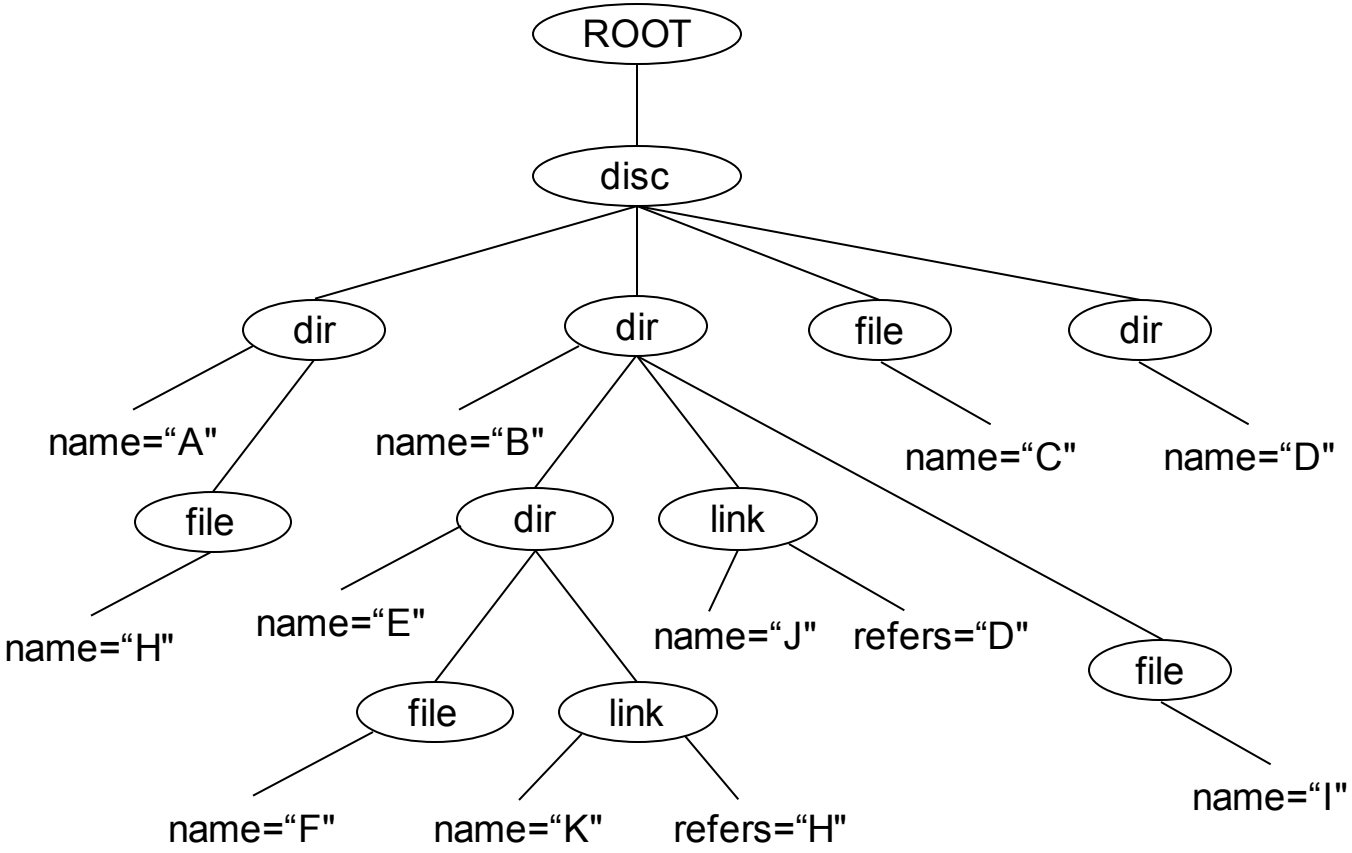
Further Examples



//dir[@name=//link/@refers]

select all directories that are being referred by a link

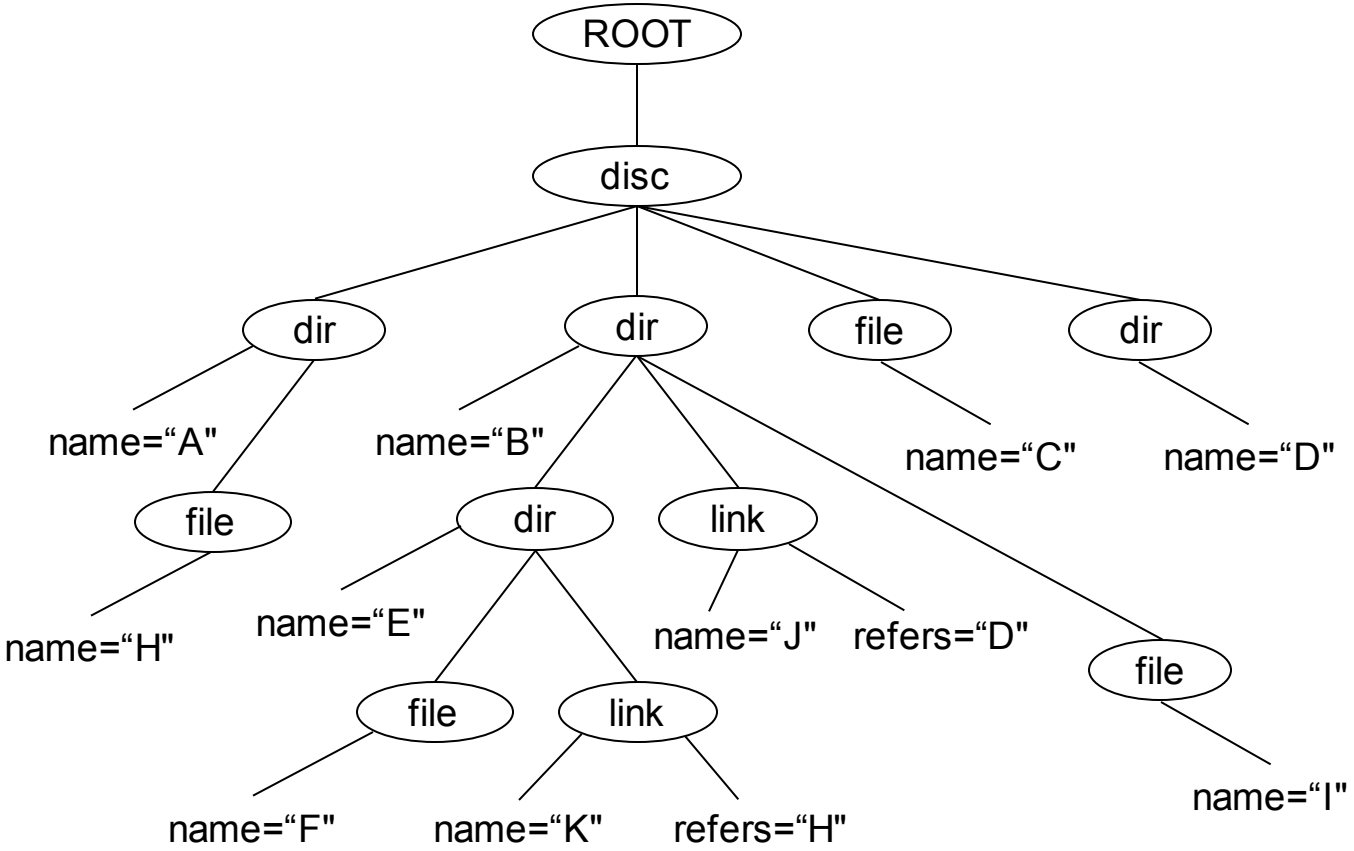
Further Examples



//file[@name="C"]/preceeding::dir[count(*) >= 2]

select all directories with more than one child that appear before the file C

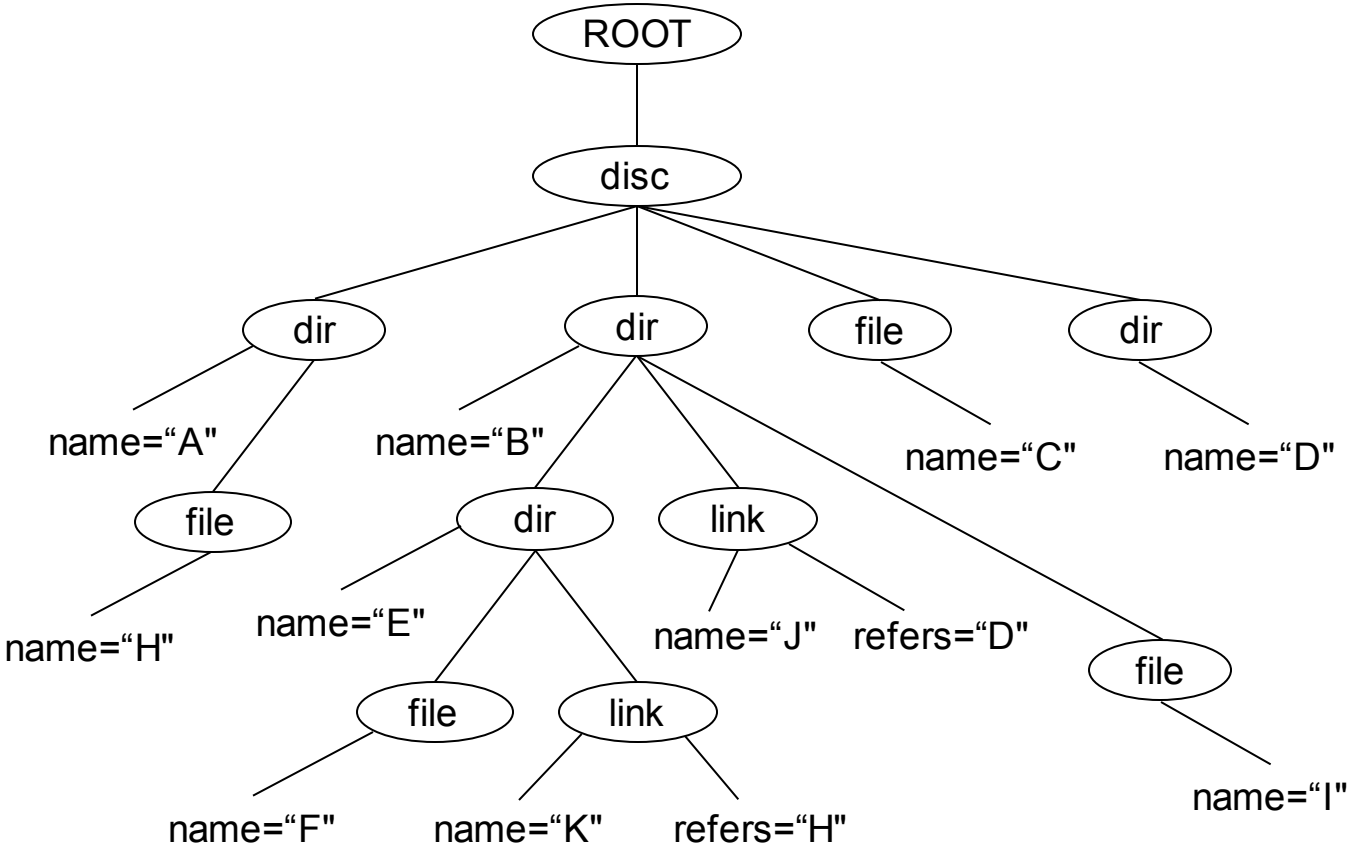
Further Examples



/*/file

select all files under disc

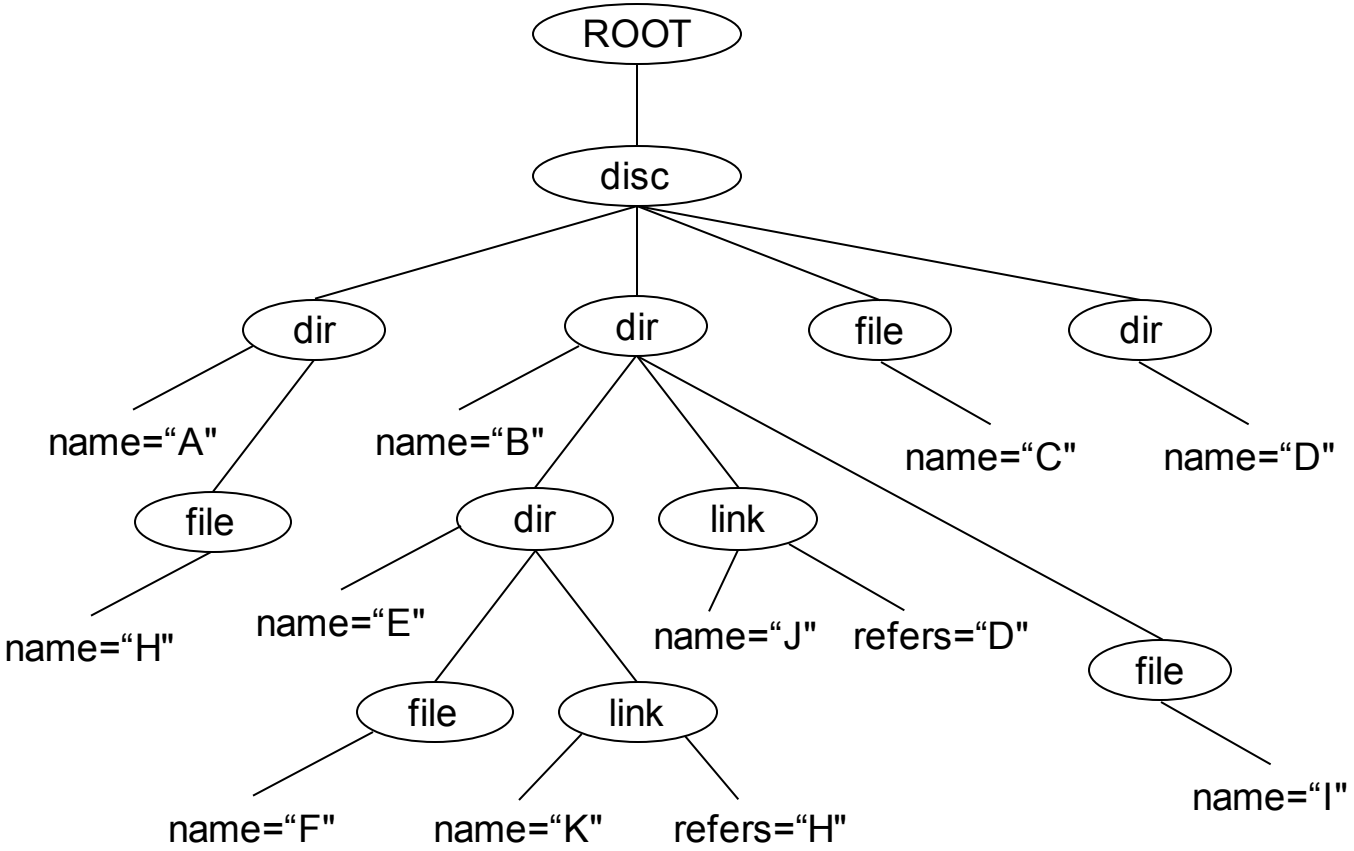
Further Examples



//dir[not(link)]

select all directories without a link

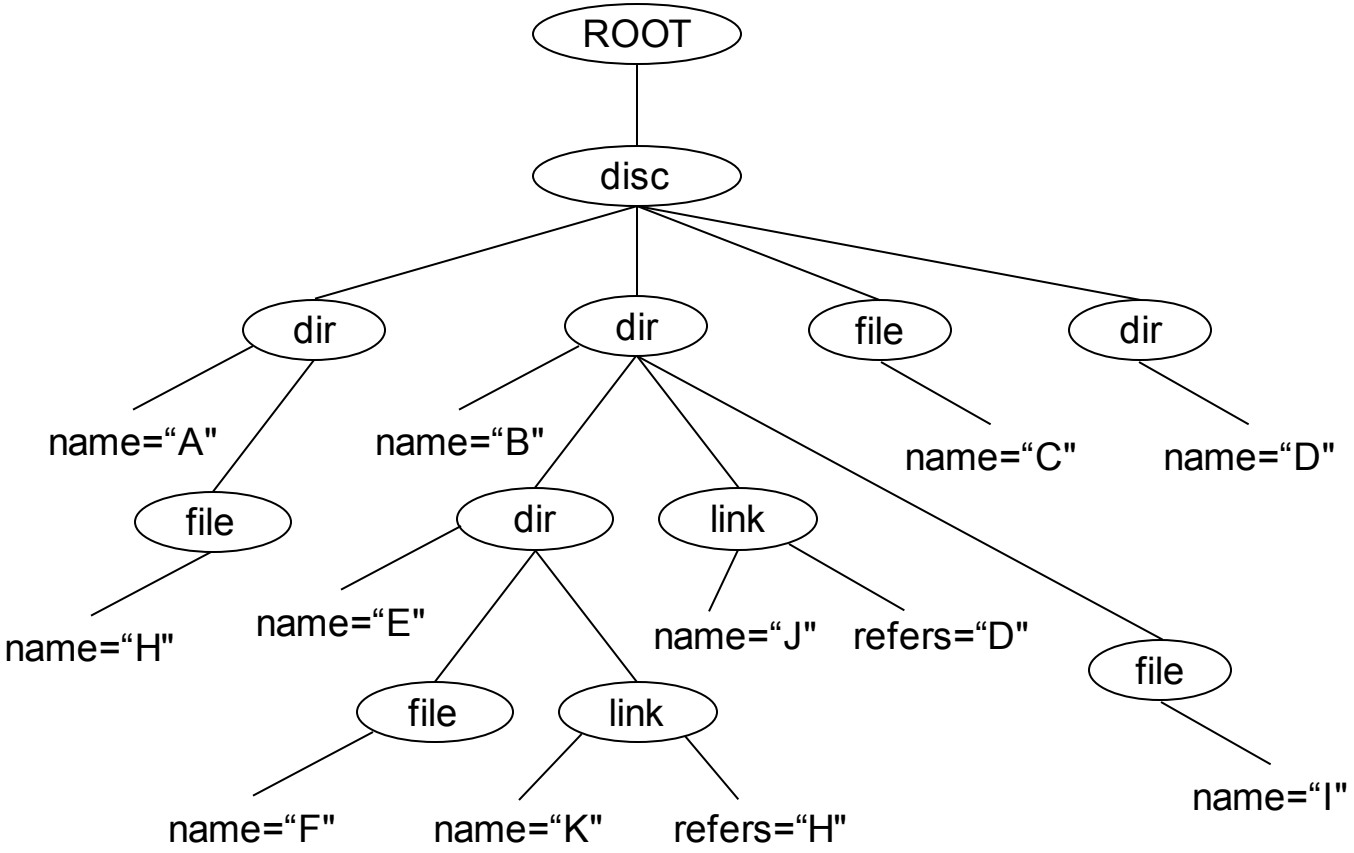
Further Examples



//*[@name=//link[@name="K"]/@refers]

select all elements that are being referred by the link K

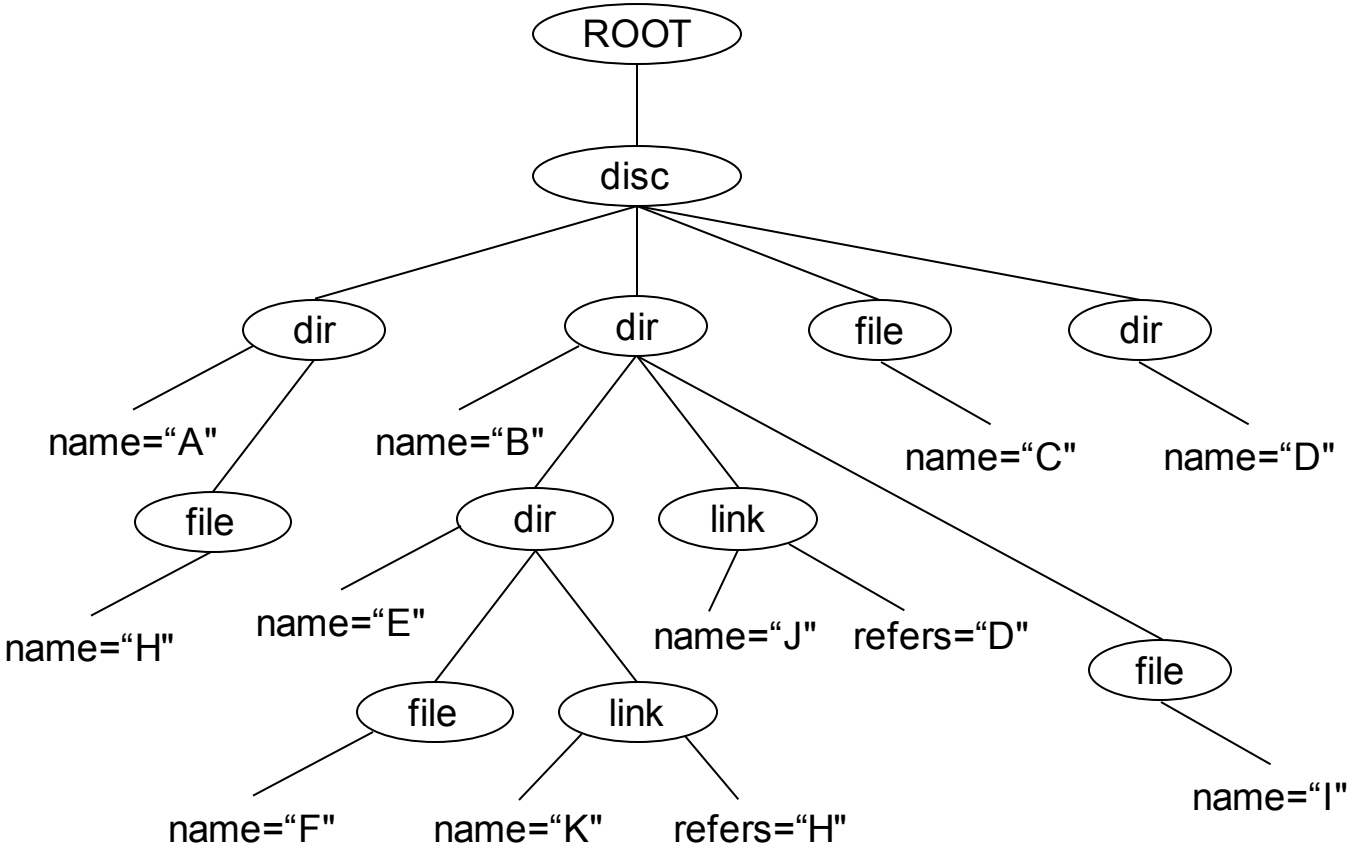
Further Examples



//file[@name="F"]/../@name

give me the name of the parent directory of file F

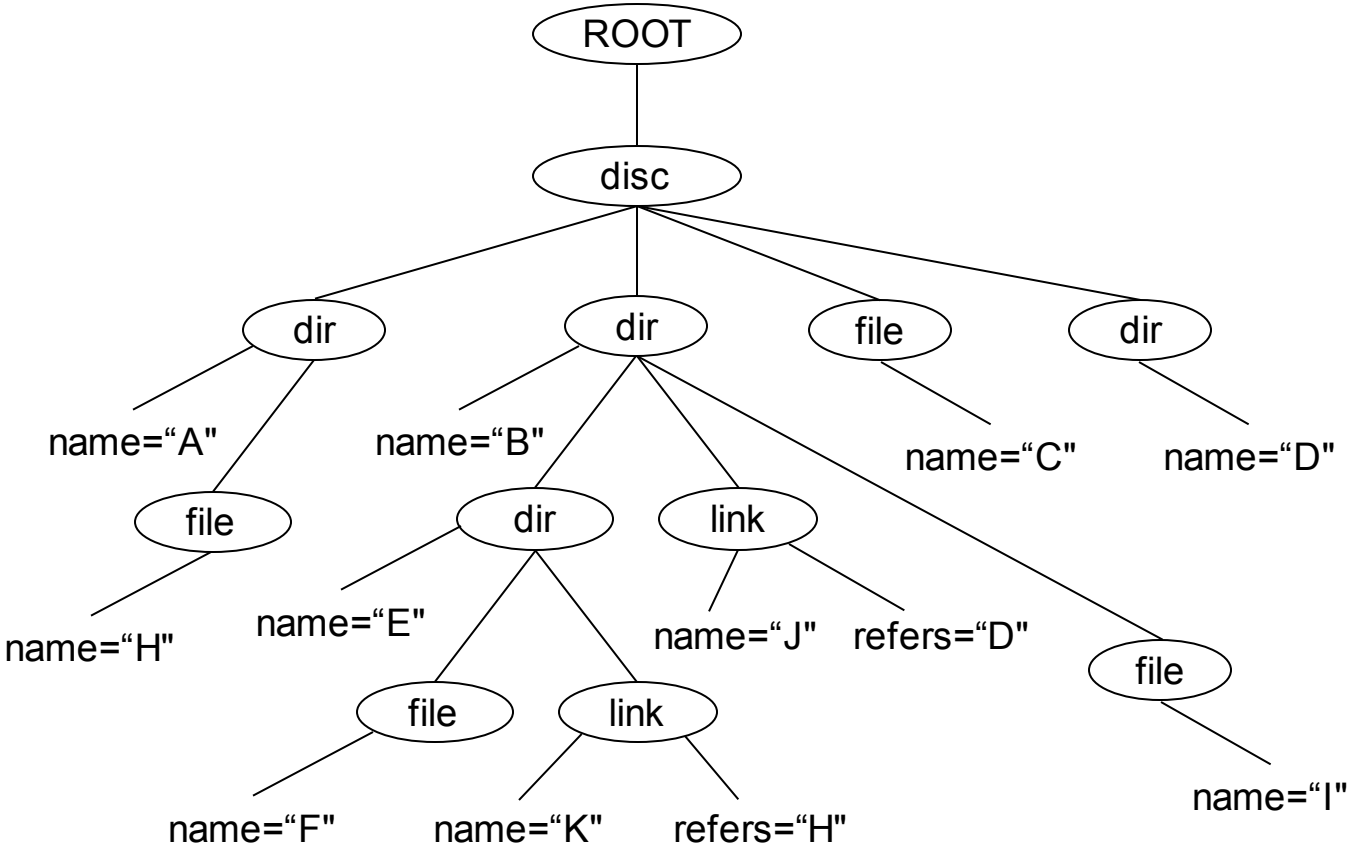
Further Examples



//file[@name="C"]/../@name **EMPTY**

give me the name of the parent directory of file C

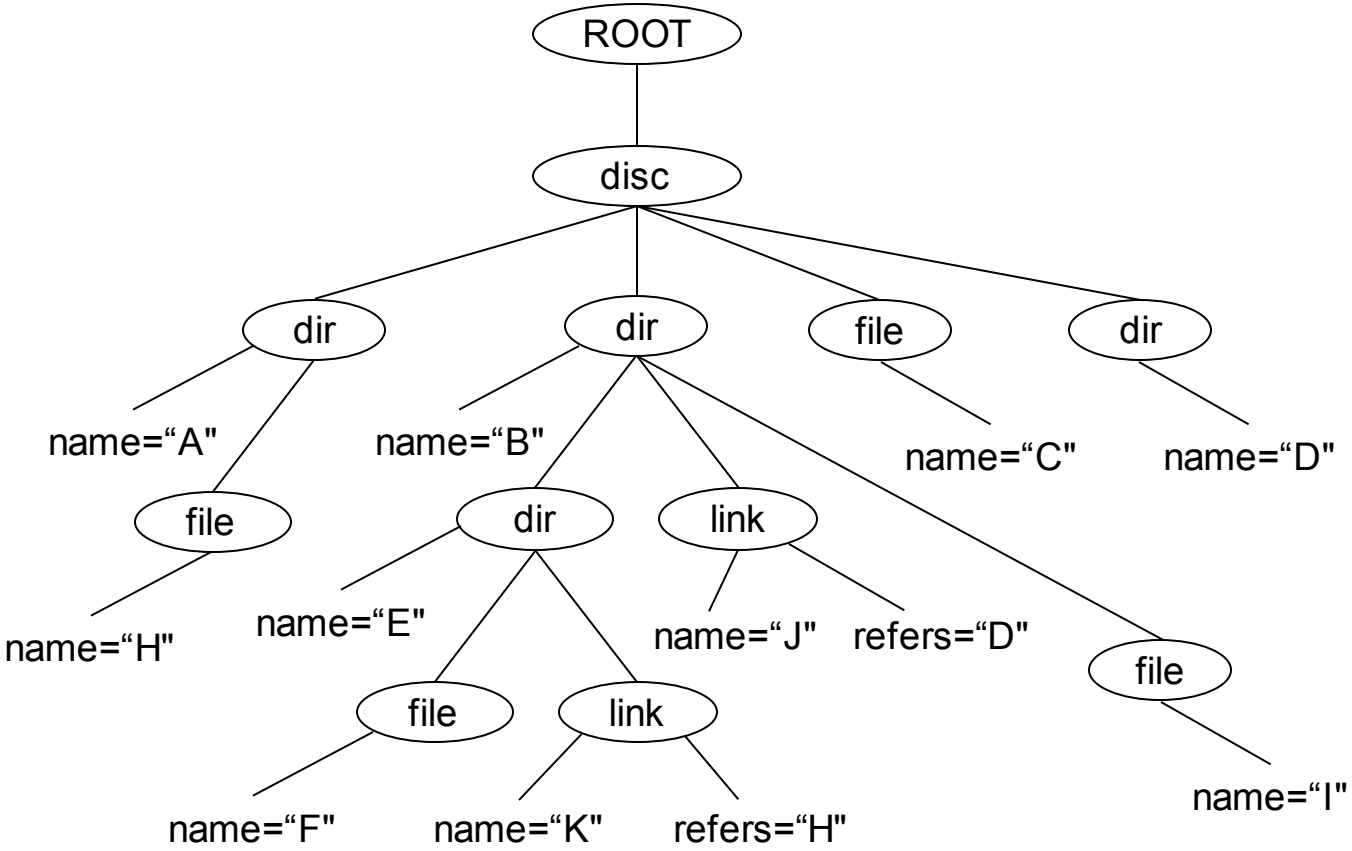
Further Examples



//file[@name="F"]/ancestor::dir[last()]/@name

give me the name of the top directory of file F

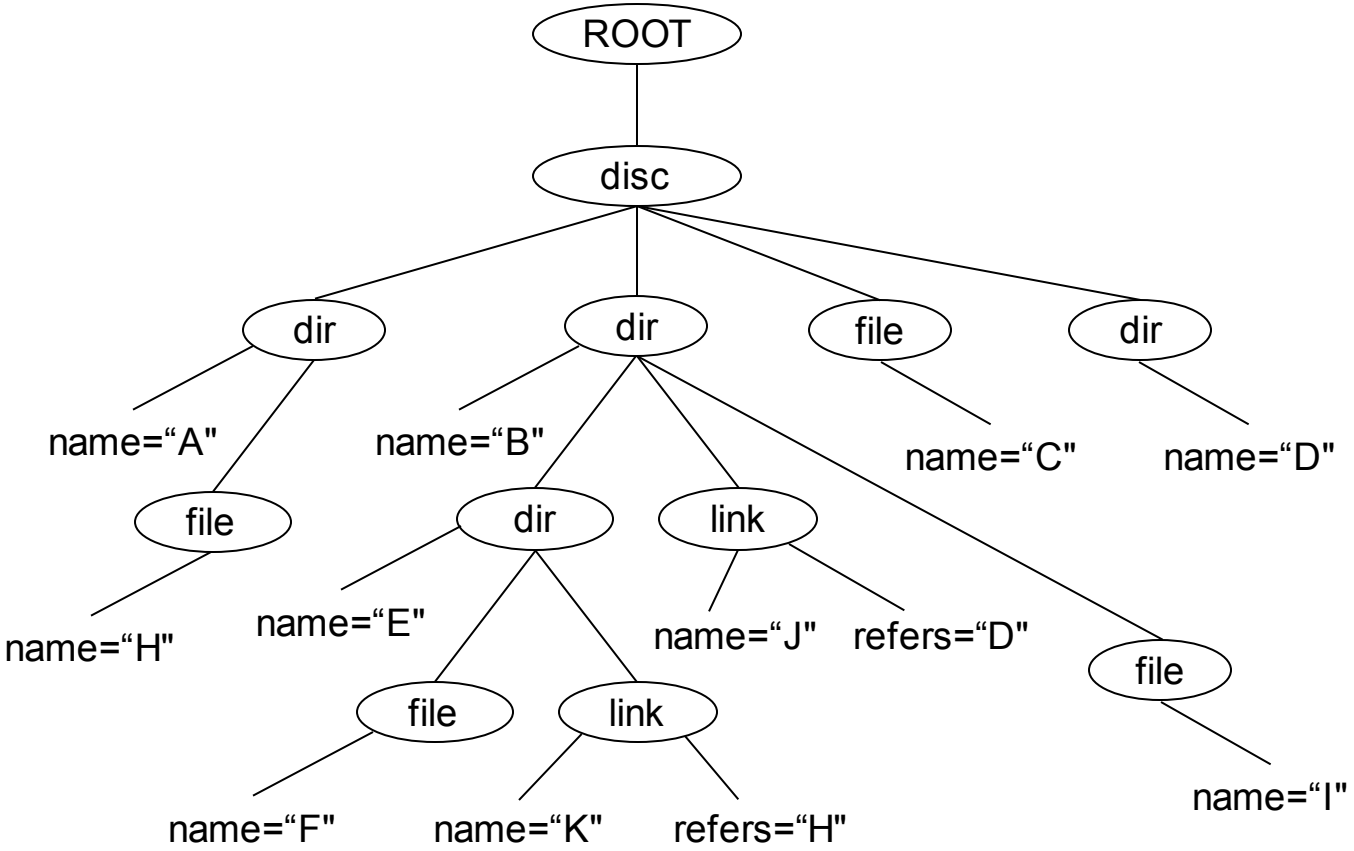
Further Examples



//file[@name=//link[@name="K"]/@refers]/ancestor::dir[last()]/@name

give me the name of the top directory of the file that is being referred by link K

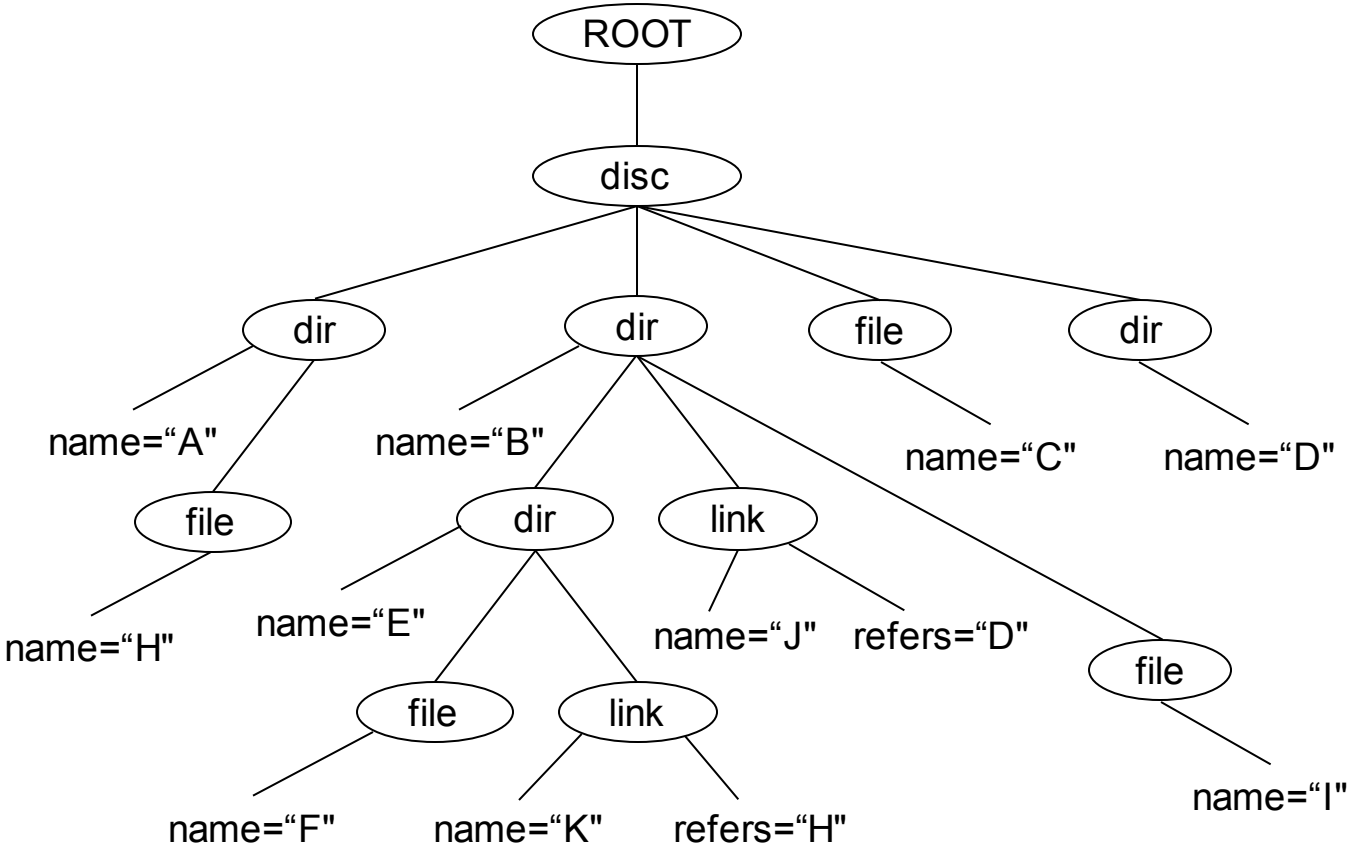
Further Examples



//file[@name="H"]/../@name | //file[@name="I"]/../@name

give me the names of the parent directories of files H and I

Further Examples



//file[@name="H" or @name="I"]/../@name

give me the names of the parent directories of files H and I