

## Exercises (1)

Write an XPath expression for the following problems :

- the **B** elements, descendant of an **A** element, itself child of the context node;
- all the **B** grand-children of the context node
- elements **B** descendants of the context node, **plus** the context node itself if its name is **B**.
- the last child named **B** of the context node.
- the first sibling of type **B** (in the document order) of the context node

## Exercises (2)

Write an XPath expression for the following problems :

- the tenth element of type **B** in the document
- child elements **B** that have a child element **C**
- elements **B** that have an attribute **att1** or an attribute **att2**
- children elements named **B** or **C**

## Exercises (3)

```
<a>
  <b><c /></b>
  <b id= "3"  di= "7" >bli <c /><c><e>bla</e></c></b>
  <d>bou</d>
</a>
```

We suppose that all text nodes containing only whitespace are removed from the tree.

- Give the result of the following XPath expressions:
  - ▶ `//e/preceding::text()`
  - ▶ `count(//c | //b/node())`
- Give an XPath expression for the following problems, and the corresponding result:
  - ▶ Sum of all attribute values
  - ▶ Text content of the document, where every "b" is replaced by a "c"
  - ▶ Name of the child of the last "c" element in the tree