

DTD:

```
<!DOCTYPE site [  
  <!ELEMENT site (regions)>  
  <!ELEMENT regions (africa, asia, australia)>  
  <!ELEMENT africa (item*)>  
  <!ELEMENT asia (item*)>  
  <!ELEMENT australia (item*)>  
  <!ELEMENT item (location,name,payment,  
    description,shipping,incategory+)>  
  <!ELEMENT incategory EMPTY>  
  <!ATTLIST incategory category ID #REQUIRED>  
... ]>
```

Query:

```
<q>{ //australia//description }</q>  
⇒ Find all opening and closing tags for  
  site, site//australia, and site//australia//description  
  (and optionally extract content too)
```

Trace of matching algorithm:

[code: Jump to the right to green, scan backwards across yellow]

```
<site><regions><africa><item><location>United_States</location><name>TV  
</name><payment>Creditcard</payment><description>15'' LCD-Flat Panel</desc  
ription><shipping>Within_country</shipping><incategory_category="3"/></i  
tem></africa><asia/><australia><item_><location>Egypt</location><name>PD  
A</name><payment>Check</payment><description>Palm Zire 71</description><  
shipping/><incategory_category="3"/></item></australia></regions></site>
```