```
(: q01.xq
doc("bib.xml")/bib/book/year
q02.xq
(:
doc("bib.xml")/bib//first
q03.xq
doc("bib.xml")/bib/book/@price
(:
   q04.xq
doc("bib.xml")//author
q05.xq
doc("bib.xml")/bib/book/author/text()
(:
   q06.xq
                 :)
doc("bib.xml")/bib/book/author[first]
                 :)
q07.xq
(:
doc("bib.xml")/bib/book/author/../author
(:
                 :)
q08.xq
doc("bib.xml")/bib/book/author[./first/../last]
(:
   q09.xq
doc("bib.xml")/bib/book/author[first][last]
```

```
:)
(:
     q11.xq
      basic FLWR expression :)
for $x in doc("bib.xml")/bib/book
where x/vear/text() > 1995
return $x/title
(: try also:
for $x in doc("bib.xml")/bib/book
where x/e_{year} > 1995
return $x/title
(: Same, more geek'ish
for $x in doc("bib.xml")/bib/book[year/text() > 1995] /t
itle
return $x
:)
(: Even better:
doc("bib.xml")/bib/book[year/text() > 1995] /title
(:
     q12.xq
                         : )
(:
     return clause
                          :)
for $x in doc("bib.xml")/bib/book
return <answer>
         <title> { $x/title/text() } </title>
         <year>{ $x/year/text() } </year>
      </answer>
(: why do we use { and } ? what happens without them ?
:)
                          :)
(:
      q13.xq
                          : )
(:
      Nesting
                          :)
for $b in doc("bib.xml")/bib,
   $a in $b/book[year/text()=1995]/author
return <result>
          for $t in $b/book[author/text()=$a/text()]/t
itle
          return $t
      </result>
(:
q14.xq
                          :)
```

```
aggregates
for $x in doc("bib.xml")/bib/book
where count($x/author)>2
return $x
Aggregates in XQuery:
 count = a function that counts
 avg = computes the average
 sum = computes the sum
 distinct-values = eliminates duplicates
(:
      q15.xq
      Flattening
(:
                           : )
for $b in doc("bib.xml")/bib/book,
   $x in $b/title,
   $y in $b/author
return <answer>
         { $x, $y }
      </answer>
(:
      q16.xq
                           :)
(:
      Regrouping
                           :)
for $b in doc("bib.xml")/bib
let $y1:= (distinct-values($b/book/year/text())),
   $y2:= (distinct-values($b/book/@year)),
   $y:=($y1, $y2) (: means concatenation :)
for $x in $y
return
   <answer>
       <year> { $x } </year>
       { for $z in $b/book[(year/text()=$x) or (@year=$
x)]/title
         return $z
   </answer>
```