

COMP9319 Exercises

Solution : Please see us at the consultations if there are any questions.

A Sample XML document

Text1 Text2 Text3 Text4 Text5

Question 1

What is the result when the XPath `/r/a/b/c[@b]` is evaluated on the XML document above?

Ans: Text3

Question 2

What is the result when the XPath `//c[d]` is evaluated on the XML document above?

Ans: Text1 Text3 Text5

Question 3

What is the result when the XPath `//a[b]/c[d]` is evaluated on the XML document above?

Ans: Text1 Text3

Question 4

What is the result when the XPath `//a/*/c[d]` is evaluated on the XML document above?

Ans: Text1 Text3

Question 5

What is the result when the XPath `//a[*]/c[d]` is evaluated on the XML document above?

Ans: Text5

Question 6

How does XGRIND achieve data compression and yet support queries on the compressed data ?

Ans:

Compression via: mapping tags to shorter labels; compress text data via static huffman.

Queryable: content and structures are preserved.

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Question 7

Calculate the min and max of the forward excess of the following tier-0 block in ISX:

((()((())))

Ans:

min forward excess: 0

max forward excess: 5

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