

5 test cases , each worth 7 points. Total 35 points

1.

doc("_caesar.xml")//(ACT,PERSONAE)/TITLE/text()/.../TITLE[not((./ACT)and(./ACT))]/.../PERSONA/...

solution:

```
<?xml version="1.0" encoding="UTF-8"?><PERSONAE>

  <TITLE>Dramatis Personae</TITLE>

  <PERSONA>JULIUS CAESAR</PERSONA>

  <PGROUP>

    <PERSONA>OCTAVIUS CAESAR</PERSONA>

    <PERSONA>MARCUS ANTONIUS</PERSONA>

    <PERSONA>M. AEMILIUS LEPIDUS</PERSONA>

    <GRPDESCR>triumvirs after death of Julius Caesar.</GRPDESCR>

  </PGROUP>

  <PGROUP>

    <PERSONA>CICERO</PERSONA>

    <PERSONA>PUBLIUS</PERSONA>

    <PERSONA>POPILIUS LENA</PERSONA>

    <GRPDESCR>senators.</GRPDESCR>

  </PGROUP>

  <PGROUP>

    <PERSONA>MARCUS BRUTUS</PERSONA>
```

<PERSONA>CASSIUS</PERSONA>

<PERSONA>CASCA</PERSONA>

<PERSONA>TREBONIUS</PERSONA>

<PERSONA>LIGARIUS</PERSONA>

<PERSONA>DECIUS BRUTUS</PERSONA>

<PERSONA>METELLUS CIMBER</PERSONA>

<PERSONA>CINNA</PERSONA>

<GRPDESCR>conspirators against Julius Caesar.</GRPDESCR>

</PGROUP>

<PGROUP>

<PERSONA>FLAVIUS</PERSONA>

<PERSONA>MARULLUS</PERSONA>

<GRPDESCR>tribunes.</GRPDESCR>

</PGROUP>

<PERSONA>ARTEMIDORUS Of Cnidos, a teacher of rhetoric. </PERSONA>

<PERSONA>A Soothsayer</PERSONA>

<PERSONA>CINNA, a poet. </PERSONA>

<PERSONA>Another Poet</PERSONA>

<PGROUP>

<PERSONA>LUCILIUS</PERSONA>

<PERSONA>TITINIUS</PERSONA>

<PERSONA>MESSALA</PERSONA>

<PERSONA>Young CATO</PERSONA>

<PERSONA>VOLUMNIUS</PERSONA>

<GRPDESCR>friends to Brutus and Cassius.</GRPDESCR>

</PGROUP>

<PGROUP>

<PERSONA>VARRO</PERSONA>

<PERSONA>CLITUS</PERSONA>

<PERSONA>CLAUDIUS</PERSONA>

<PERSONA>STRATO</PERSONA>

<PERSONA>LUCIUS</PERSONA>

<PERSONA>DARDANIUS</PERSONA>

<GRPDESCR>servants to Brutus.</GRPDESCR>

</PGROUP>

<PERSONA>PINDARUS, servant to Cassius.</PERSONA>

<PERSONA>CALPURNIA, wife to Caesar.</PERSONA>

<PERSONA>PORTIA, wife to Brutus.</PERSONA>

<PERSONA>Senators, Citizens, Guards, Attendants, &c.</PERSONA>

</PERSONAE>

2.

`doc("j_caesar.xml")/PLAY/ACT[not(SCENE=ACT)]/TITLE/.`

solution:

returned result:5

`<?xml version="1.0" encoding="UTF-8"?><TITLE>ACT III</TITLE>`

`<?xml version="1.0" encoding="UTF-8"?><TITLE>ACT V</TITLE>`

`<?xml version="1.0" encoding="UTF-8"?><TITLE>ACT IV</TITLE>`

`<?xml version="1.0" encoding="UTF-8"?><TITLE>ACT II</TITLE>`

`<?xml version="1.0" encoding="UTF-8"?><TITLE>ACT I</TITLE>`

3.

```
doc("j_caesar.xml")/PLAY/(ACT,PERSONAE)/PGROUP[not(PERSONA)or(GRPDESCR)]/../.
```

Solution: 0 result

4.

“doc(\\j_caesar.xml\\")//(ACT/SCENE/SPEECH)/(SPEAKER)/../[not (../TITLE==../LINE) and (../*/SPEAKER==../SPEAKER)]/../TITLE”

Solution:

returned result:18

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE IV. Another part of the same street, before the house of BRUTUS.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE II. A public place.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE V. Another part of the field.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE III. Another part of the field.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE II. The same. The field of battle.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE I. Rome. BRUTUS's orchard.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE III. A street near the Capitol.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE I. The plains of Philippi.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE II. Camp near Sardis. Before BRUTUS's tent.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE II. The Forum.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE I. A house in Rome.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE I. Rome. Before the Capitol; the Senate sitting above.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE II. CAESAR's house.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE IV. Another part of the field.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE III. Brutus's tent.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE I. Rome. A street.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE III. The same. A street.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE III. A street.</TITLE>

5.

`doc("j_caesar.xml")//ACT[./TITLE]*/SPEECH/../*/..../TITLE`

Solution:

returned result:18

`<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE III. Another part of the field.</TITLE>`

`<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE I. Rome. A street.</TITLE>`

`<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE IV. Another part of the same street, before the house of BRUTUS.</TITLE>`

`<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE III. Brutus's tent.</TITLE>`

`<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE V. Another part of the field.</TITLE>`

`<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE II. A public place.</TITLE>`

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`<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE II. The same. The field of battle.</TITLE>`

`<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE III. A street near the Capitol.</TITLE>`

`<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE I. Rome. BRUTUS's orchard.</TITLE>`

`<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE IV. Another part of the field.</TITLE>`

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE III. The same. A street.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE I. The plains of Philippi.</TITLE>

<?xml version="1.0" encoding="UTF-8"?><TITLE>SCENE II. Camp near Sardis. Before
BRUTUS's tent.</TITLE>