

```

xquery version "1.0";
(:question 1:)
let $a := doc("chiranjeevi_balawat.xml")//nw
let $newline := "&#10;"
for $b in $a /USERS/myid
  let $myposts := $a /POST[userid=$b ]
  for $eachpost in $myposts
    let $pcontent := $eachpost/content
    let $pauthor := $a/USERS[myid = $eachpost/author]/name

order by $b
return
  <output>
    {$newline}{$newline}
      <user>{data($a/USERS[myid = $b ]/name )}: following are the posts on my wall, also see
the comments under the replyToThePost Node</user>{$newline}
      <postsOnMYWall>{data($pauthor ) } writes : "{data($pcontent
)}"</postsOnMYWall>{$newline}
      <replyToThePost>{$newline }{let $com := $a /COMMENTS[postid = $eachpost/postid]/cid for
      $i in $com return concat($a/USERS[myid = $i ../cauthor]/name, " says: ", $i
      ../content, $newline ) }</replyToThePost> {$newline }{$newline }
    </output>

/*****
*****/

xquery version "1.0";
(: question 2 :)

let $a := doc("chiranjeevi_balawat.xml")//nw
let $newline := "&#10;"
for $b in $a /USERS/myid
let $I_liked := $a /POST/likes[Like = $b ]/../postid
let $otherliked := $a /POST[postid = $I_liked ]/likes/Like
order by $a /POST/postid
return
  <output>
    {$newline}{$newline}
      <user>{data($a/USERS[myid = $b ]/name )} says : "i like the following post and so
do the users under usersFriendLiked"</user>{$newline}
      <userLiked>post with 'postid' :{for $i in $I_liked return concat($i , '
,')}</userLiked>{$newline}
      <usersFriendLiked>{data(distinct-values(let $y := for $x in $otherliked return
concat($a/USERS[myid = $x]/name/string(), " ,") return $y
))}</usersFriendLiked>{$newline}{$newline}
    </output>

/*****
*****/

xquery version "1.0";

```

```
(: question 3 :)
let $a := doc("chiranjeevi_balawat.xml")//nw
let $newline := "&#10;"

(: question 3 :)

let $x :=
for $b in $a/USERS/myid
let $countfriend := count($a/FRIEND[myid = $b]/fid)
return $countfriend
let $c := max($x )
let $i := index-of($x, $c )

return

<output>
{$newline}{$newline}
  <a>The following users have the highest number of friends viz. = {data($c
  )}</a>{$newline}

  <b> {for $j in $i return
    concat (data($a/USERS[myid = $j ]/name), ' , ')}</b>{$newline}{$newline}

</output>

/*****
*****/
(: question 4 :)
xquery version "1.0";
let $a := doc("chiranjeevi_balawat.xml")//nw
let $newline := "&#10;"
let $check := 0
for $b in $a/USERS/myid

let $Level1 := $a/FRIEND[myid = $b]/fid
for $c in $Level1
let $Level2 := $a/FRIEND[myid = $c]/fid
for $d in $Level2
let $Level3 := $a/FRIEND[myid = $d]/fid

return

<output>
{$newline}{$newline}
  <user>{data($a/USERS[myid = $b]/name)} says : "my 3 level list is as follows"
  </user>{$newline}
  <first > { for $i in distinct-values($Level1) return concat(data($a/USERS[ myid =
  $i ]/name), ' , ' ) } </first>{$newline}

  <second> {for $i in distinct-values($Level2) return concat(data($a/USERS[ myid =
  $i ]/name), ' , ' ) } </second>{$newline}
```

```
<third> {for $i in distinct-values($Level3) return concat(data($a/USERS[ myid =
    $i ]/name), ' ',')} </third> {$newline}{$newline}
```

```
</output>
```

```

/*****
*****/

```

```
(: question 5 :)
```

```
xquery version "1.0";
```

```
let $a := doc("chiranjeevi_balawat.xml")//nw
```

```
let $newline := "
";
```

```
for $b in $a/USERS/myid
```

```
let $myfriends := $a/FRIEND[myid = $b]/fid
```

```
return
```

```
<output>
```

```
    {$newline}{$newline}
```

```
    <user>{$a/USERS[myid = $b ]/name/string()} says: --- </user>{$newline}
```

```
    <myFriendCount>{ for $c in $myfriends
```

```
let $countfriend := count($a/FRIEND[myid = $c]/fid) return concat("my friend ",
```

```
$a/USERS[myid = $c ]/name, " has ", $countfriend , " friends ", $newline )} </myFriendCount>
```

```
    {$newline}{$newline}
```

```
</output>
```

```

/*****
*****/

```

```
(: question 6 :)
```

```
xquery version "1.0";
```

```
let $a := doc("chiranjeevi_balawat.xml")//nw
```

```
let $newline := "
";
```

```
for $b in $a /USERS/myid
```

```
let $msgrecvd := $a /MESSAGE/receiver[recvr = $b ]/..
```

```
for $i in $msgrecvd
```

```
let $mid := $i /mid
```

```
let $date := $i /date
```

```
let $sub := $i /sub
```

```
let $content := $i /content
```

```
let $sender := $i /sender
```

```
let $receivers := $i /receiver/recvr
```

```
let $countreply := count($i ../MSGREPLY[mid = $mid ])
```

```
order by $mid
```

```
return
```

```
<output>
```

```
    {$newline}    {$newline}
```

```
    <user> {data($a/USERS[myid = $b ]/name)} : I received the following messages</user>
```

```
    {$newline}
```

```
    <message>{ concat("date: ", data($date), $newline )} {concat("subject: ", data($sub ),
```

```

$newline }} {concat("content: ", data($content ), $newline )} {concat("sender: ",
data($a/USERS[myid = $sender ]/name), $newline )} {concat("recepipients: ",
"")){data(distinct-values(let $y := for $x in $receivers return concat($a/USERS[myid
= $x]/name/string()), " ,") return $y )}} {concat($newline, "numberof replies: ",
data($countreply ), $newline )} </message> {$newline} {$newline}
</output>

```

```

/*****
*****/

```

```

xquery version "1.0";
(: question 7 :)
let $a := doc("chiranjeevi_balawat.xml")//nw
let $newline := "&#10;"
for $b in $a /USERS/myid
let $itemBought := $a /REVENUE[userid = $b ]/item/string()
let $revenue := sum($a /REVENUE[userid = $b ]/price)
order by $b
return
  <output>
    {$newline}{$newline}      <user>revenue generated by me : {data($a/USERS[myid = $b
]/name)}</user>{$newline}
      <myRevenue> I bought the following items: {for $i in $itemBought return concat($i , '
',')} total =  {$revenue }</myRevenue>{$newline}{$newline}
  </output>

```

QUERY 1

<output>

<user>chiranjeevi: following are the posts on my wall, also see the comments under the
replyToThePost Node</user>

<postsOnMYWall>sharath writes : "how r u"</postsOnMYWall>

<replyToThePost>

paul says: hmmm

preethi says: suit up!

</replyToThePost>

</output><output>

<user>chiranjeevi: following are the posts on my wall, also see the comments under the
replyToThePost Node</user>

<postsOnMYWall>dileep writes : "movie tomorrow"</postsOnMYWall>

<replyToThePost>

chiranjeevi says: sure

aparna says: ll be there!

paul says: lets do this!

</replyToThePost>

</output><output>

<user>chiranjeevi: following are the posts on my wall, also see the comments under the
replyToThePost Node</user>

<postsOnMYWall>preethi writes : "going to california"</postsOnMYWall>

<replyToThePost>

preethi says: sure

sharath says: awesome

sharath says: seriously???

</replyToThePost>

</output><output>

<user>chiranjeevi: following are the posts on my wall, also see the comments under the
replyToThePost Node</user>

<postsOnMYWall>susan writes : "thats rad"</postsOnMYWall>

<replyToThePost>

ajay says: ok dude

manasa says: doooooode

manasa says: ok

</replyToThePost>

</output><output>

<user>ajay: following are the posts on my wall, also see the comments under the replyToThePost
Node</user>

<postsOnMYWall>chiranjeevi writes : "rugby practise tomorrow"</postsOnMYWall>

<replyToThePost>

dileep says: pretty cool huh?!

</replyToThePost>

</output><output>

```
<user>dileep: following are the posts on my wall, also see the comments under the
replyToThePost Node</user>
<postsOnMYWall>chiranjeevi writes : "go seawolves"</postsOnMYWall>
<replyToThePost>
chiranjeevi says: yeah
preethi says: yeah
aparna says: done
</replyToThePost>
```

</output><output>

```
<user>preethi: following are the posts on my wall, also see the comments under the
replyToThePost Node</user>
<postsOnMYWall>manasa writes : "hello"</postsOnMYWall>
<replyToThePost>
susan says: awesome
</replyToThePost>
```

</output><output>

```
<user>paul: following are the posts on my wall, also see the comments under the replyToThePost
Node</user>
<postsOnMYWall>dileep writes : "congrats"</postsOnMYWall>
<replyToThePost>
aparna says: ok
ajay says: ok
manisha says: go!
</replyToThePost>
```

</output>

```
/*****
*****/
```

QUERY 2

<output>

```
<user>chiranjeevi says : "i like the following post and so do the users under
usersFriendLiked"</user>
<userLiked>post with 'postid' :1 ,2 ,3 ,6 ,</userLiked>
<usersFriendLiked>chiranjeevi ,ajay ,manisha ,sharath ,paul ,manasa ,dileep ,aparna
,</usersFriendLiked>
```

</output><output>

```
<user>ajay says : "i like the following post and so do the users under usersFriendLiked"</user>
<userLiked>post with 'postid' :1 ,3 ,4 ,5 ,6 ,8 ,</userLiked>
<usersFriendLiked>chiranjeevi ,ajay ,manisha ,dileep ,aparna ,paul ,sharath ,manasa ,susan
```

,</usersFriendLiked>

</output><output>

<user>aparna says : "i like the following post and so do the users under usersFriendLiked"</user>
<userLiked>post with 'postid' :3 ,5 ,6 ,8 ,</userLiked>
<usersFriendLiked>dileep ,aparna ,ajay ,chiranjeevi ,paul ,manasa ,susan ,</usersFriendLiked>

</output><output>

<user>manasa says : "i like the following post and so do the users under usersFriendLiked"</user>
<userLiked>post with 'postid' :2 ,5 ,6 ,</userLiked>
<usersFriendLiked>sharath ,paul ,chiranjeevi ,manasa ,aparna ,ajay ,</usersFriendLiked>

</output><output>

<user>sharath says : "i like the following post and so do the users under
usersFriendLiked"</user>
<userLiked>post with 'postid' :2 ,4 ,7 ,</userLiked>
<usersFriendLiked>sharath ,paul ,chiranjeevi ,manasa ,ajay ,dileep ,manisha ,preethi
,</usersFriendLiked>

</output><output>

<user>manisha says : "i like the following post and so do the users under
usersFriendLiked"</user>
<userLiked>post with 'postid' :1 ,7 ,</userLiked>
<usersFriendLiked>chiranjeevi ,ajay ,manisha ,sharath ,dileep ,preethi ,</usersFriendLiked>

</output><output>

<user>dileep says : "i like the following post and so do the users under usersFriendLiked"</user>
<userLiked>post with 'postid' :3 ,4 ,7 ,</userLiked>
<usersFriendLiked>dileep ,aparna ,ajay ,chiranjeevi ,paul ,sharath ,manisha ,preethi
,</usersFriendLiked>

</output><output>

<user>preethi says : "i like the following post and so do the users under
usersFriendLiked"</user>
<userLiked>post with 'postid' :7 ,</userLiked>
<usersFriendLiked>sharath ,manisha ,dileep ,preethi ,</usersFriendLiked>

</output><output>

<user>paul says : "i like the following post and so do the users under usersFriendLiked"</user>
<userLiked>post with 'postid' :2 ,4 ,5 ,8 ,</userLiked>
<usersFriendLiked>sharath ,paul ,chiranjeevi ,manasa ,ajay ,dileep ,aparna ,susan
,</usersFriendLiked>

</output><output>

<user>susan says : "i like the following post and so do the users under usersFriendLiked"</user>

```
<userLiked>post with 'postid' :8 ,</userLiked>
<usersFriendLiked>paul ,susan ,ajay ,aparna ,</usersFriendLiked>
```

```
</output>
```

```
/*****
*****/
```

```
QUERY 3
```

```
<output>
```

```
<a>The following users have the highest number of friends viz. = 5</a>
```

```
<b>ajay ,</b>
```

```
</output>
```

```
/*****
*****/
```

```
QUERY 4
```

```
<output>
```

```
<user>chiranjeevi says : "my 3 level list is as follows" </user>
```

```
<first>ajay ,aparna ,paul ,dileep ,</first>
```

```
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
```

```
<third>ajay ,aparna ,paul ,dileep ,</third>
```

```
</output><output>
```

```
<user>chiranjeevi says : "my 3 level list is as follows" </user>
```

```
<first>ajay ,aparna ,paul ,dileep ,</first>
```

```
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
```

```
<third>ajay ,chiranjeevi ,</third>
```

```
</output><output>
```

```
<user>chiranjeevi says : "my 3 level list is as follows" </user>
```

```
<first>ajay ,aparna ,paul ,dileep ,</first>
```

```
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
```

```
<third>ajay ,</third>
```

```
</output><output>
```

```
<user>chiranjeevi says : "my 3 level list is as follows" </user>
```

```
<first>ajay ,aparna ,paul ,dileep ,</first>
```

```
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
```

```
<third>ajay ,</third>
```

```
</output><output>
```

```
<user>chiranjeevi says : "my 3 level list is as follows" </user>
```

```
<first>ajay ,aparna ,paul ,dileep ,</first>
```

```
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
```

```
<third>ajay ,</third>
```


</output><output>

<user>chiranjeevi says : "my 3 level list is as follows" </user>
<first>ajay ,aparna ,paul ,dileep ,</first>
<second>ajay ,chiranjeevi ,</second>
<third>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</third>

</output><output>

<user>chiranjeevi says : "my 3 level list is as follows" </user>
<first>ajay ,aparna ,paul ,dileep ,</first>
<second>ajay ,chiranjeevi ,</second>
<third>ajay ,aparna ,paul ,dileep ,</third>

</output><output>

<user>chiranjeevi says : "my 3 level list is as follows" </user>
<first>ajay ,aparna ,paul ,dileep ,</first>
<second>chiranjeevi ,</second>
<third>ajay ,aparna ,paul ,dileep ,</third>

</output><output>

<user>chiranjeevi says : "my 3 level list is as follows" </user>
<first>ajay ,aparna ,paul ,dileep ,</first>
<second>chiranjeevi ,</second>
<third>ajay ,aparna ,paul ,dileep ,</third>

</output><output>

<user>ajay says : "my 3 level list is as follows" </user>
<first>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</first>
<second>ajay ,aparna ,paul ,dileep ,</second>
<third>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</third>

</output><output>

<user>ajay says : "my 3 level list is as follows" </user>
<first>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</first>
<second>ajay ,aparna ,paul ,dileep ,</second>
<third>ajay ,chiranjeevi ,</third>

</output><output>

<user>ajay says : "my 3 level list is as follows" </user>
<first>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</first>
<second>ajay ,aparna ,paul ,dileep ,</second>
<third>chiranjeevi ,</third>

</output><output>

<user>ajay says : "my 3 level list is as follows" </user>

```
<first>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</first>
<second>ajay ,aparna ,paul ,dileep ,</second>
<third>chiranjeevi ,</third>
```

```
</output><output>
```

```
<user>ajay says : "my 3 level list is as follows" </user>
<first>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</first>
<second>ajay ,chiranjeevi ,</second>
<third>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</third>
```

```
</output><output>
```

```
<user>ajay says : "my 3 level list is as follows" </user>
<first>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</first>
<second>ajay ,chiranjeevi ,</second>
<third>ajay ,aparna ,paul ,dileep ,</third>
```

```
</output><output>
```

```
<user>ajay says : "my 3 level list is as follows" </user>
<first>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</first>
<second>ajay ,</second>
<third>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</third>
```

```
</output><output>
```

```
<user>ajay says : "my 3 level list is as follows" </user>
<first>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</first>
<second>ajay ,</second>
<third>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</third>
```

```
</output><output>
```

```
<user>ajay says : "my 3 level list is as follows" </user>
<first>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</first>
<second>ajay ,</second>
<third>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</third>
```

```
</output><output>
```

```
<user>aparna says : "my 3 level list is as follows" </user>
<first>ajay ,chiranjeevi ,</first>
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
<third>ajay ,aparna ,paul ,dileep ,</third>
```

```
</output><output>
```

```
<user>aparna says : "my 3 level list is as follows" </user>
<first>ajay ,chiranjeevi ,</first>
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
<third>ajay ,chiranjeevi ,</third>
```

</output><output>

<user>aparna says : "my 3 level list is as follows" </user>
<first>ajay ,chiranjeevi ,</first>
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
<third>ajay ,</third>

</output><output>

<user>aparna says : "my 3 level list is as follows" </user>
<first>ajay ,chiranjeevi ,</first>
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
<third>ajay ,</third>

</output><output>

<user>aparna says : "my 3 level list is as follows" </user>
<first>ajay ,chiranjeevi ,</first>
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
<third>ajay ,</third>

</output><output>

<user>aparna says : "my 3 level list is as follows" </user>
<first>ajay ,chiranjeevi ,</first>
<second>ajay ,aparna ,paul ,dileep ,</second>
<third>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</third>

</output><output>

<user>aparna says : "my 3 level list is as follows" </user>
<first>ajay ,chiranjeevi ,</first>
<second>ajay ,aparna ,paul ,dileep ,</second>
<third>ajay ,chiranjeevi ,</third>

</output><output>

<user>aparna says : "my 3 level list is as follows" </user>
<first>ajay ,chiranjeevi ,</first>
<second>ajay ,aparna ,paul ,dileep ,</second>
<third>chiranjeevi ,</third>

</output><output>

<user>aparna says : "my 3 level list is as follows" </user>
<first>ajay ,chiranjeevi ,</first>
<second>ajay ,aparna ,paul ,dileep ,</second>
<third>chiranjeevi ,</third>

</output><output>

<user>manasa says : "my 3 level list is as follows" </user>
<first>preethi ,</first>

```
<second>manasa ,</second>
<third>preethi ,</third>
```

```
</output><output>
```

```
<user>sharath says : "my 3 level list is as follows" </user>
<first>ajay ,</first>
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
<third>ajay ,aparna ,paul ,dileep ,</third>
```

```
</output><output>
```

```
<user>sharath says : "my 3 level list is as follows" </user>
<first>ajay ,</first>
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
<third>ajay ,chiranjeevi ,</third>
```

```
</output><output>
```

```
<user>sharath says : "my 3 level list is as follows" </user>
<first>ajay ,</first>
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
<third>ajay ,</third>
```

```
</output><output>
```

```
<user>sharath says : "my 3 level list is as follows" </user>
<first>ajay ,</first>
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
<third>ajay ,</third>
```

```
</output><output>
```

```
<user>sharath says : "my 3 level list is as follows" </user>
<first>ajay ,</first>
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
<third>ajay ,</third>
```

```
</output><output>
```

```
<user>manisha says : "my 3 level list is as follows" </user>
<first>ajay ,</first>
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
<third>ajay ,aparna ,paul ,dileep ,</third>
```

```
</output><output>
```

```
<user>manisha says : "my 3 level list is as follows" </user>
<first>ajay ,</first>
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
<third>ajay ,chiranjeevi ,</third>
```

```
</output><output>
```

```
<user>manisha says : "my 3 level list is as follows" </user>
<first>ajay ,</first>
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
<third>ajay ,</third>
```

</output><output>

```
<user>manisha says : "my 3 level list is as follows" </user>
<first>ajay ,</first>
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
<third>ajay ,</third>
```

</output><output>

```
<user>manisha says : "my 3 level list is as follows" </user>
<first>ajay ,</first>
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
<third>ajay ,</third>
```

</output><output>

```
<user>dileep says : "my 3 level list is as follows" </user>
<first>chiranjeevi ,</first>
<second>ajay ,aparna ,paul ,dileep ,</second>
<third>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</third>
```

</output><output>

```
<user>dileep says : "my 3 level list is as follows" </user>
<first>chiranjeevi ,</first>
<second>ajay ,aparna ,paul ,dileep ,</second>
<third>ajay ,chiranjeevi ,</third>
```

</output><output>

```
<user>dileep says : "my 3 level list is as follows" </user>
<first>chiranjeevi ,</first>
<second>ajay ,aparna ,paul ,dileep ,</second>
<third>chiranjeevi ,</third>
```

</output><output>

```
<user>dileep says : "my 3 level list is as follows" </user>
<first>chiranjeevi ,</first>
<second>ajay ,aparna ,paul ,dileep ,</second>
<third>chiranjeevi ,</third>
```

</output><output>

```
<user>preethi says : "my 3 level list is as follows" </user>
<first>manasa ,</first>
<second>preethi ,</second>
```

<third>manasa ,</third>

</output><output>

<user>paul says : "my 3 level list is as follows" </user>

<first>chiranjeevi ,</first>

<second>ajay ,aparna ,paul ,dileep ,</second>

<third>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</third>

</output><output>

<user>paul says : "my 3 level list is as follows" </user>

<first>chiranjeevi ,</first>

<second>ajay ,aparna ,paul ,dileep ,</second>

<third>ajay ,chiranjeevi ,</third>

</output><output>

<user>paul says : "my 3 level list is as follows" </user>

<first>chiranjeevi ,</first>

<second>ajay ,aparna ,paul ,dileep ,</second>

<third>chiranjeevi ,</third>

</output><output>

<user>paul says : "my 3 level list is as follows" </user>

<first>chiranjeevi ,</first>

<second>ajay ,aparna ,paul ,dileep ,</second>

<third>chiranjeevi ,</third>

</output><output>

<user>susan says : "my 3 level list is as follows" </user>

<first>ajay ,</first>

<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>

<third>ajay ,aparna ,paul ,dileep ,</third>

</output><output>

<user>susan says : "my 3 level list is as follows" </user>

<first>ajay ,</first>

<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>

<third>ajay ,chiranjeevi ,</third>

</output><output>

<user>susan says : "my 3 level list is as follows" </user>

<first>ajay ,</first>

<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>

<third>ajay ,</third>

</output><output>

```
<user>susan says : "my 3 level list is as follows" </user>
<first>ajay ,</first>
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
<third>ajay ,</third>
```

```
</output><output>
```

```
<user>susan says : "my 3 level list is as follows" </user>
<first>ajay ,</first>
<second>chiranjeevi ,aparna ,manisha ,sharath ,susan ,</second>
<third>ajay ,</third>
```

```
</output>
```

```
/*****
```

```
*****/
```

```
QUERY 5
```

```
<output>
```

```
<user>chiranjeevi says: --- </user>
<myFriendCount>my friend ajay has 5 friends
my friend aparna has 2 friends
my friend paul has 1 friends
my friend dileep has 1 friends
</myFriendCount>
```

```
</output><output>
```

```
<user>ajay says: --- </user>
<myFriendCount>my friend chiranjeevi has 4 friends
my friend aparna has 2 friends
my friend manisha has 1 friends
my friend sharath has 1 friends
my friend susan has 1 friends
</myFriendCount>
```

```
</output><output>
```

```
<user>aparna says: --- </user>
<myFriendCount>my friend ajay has 5 friends
my friend chiranjeevi has 4 friends
</myFriendCount>
```

```
</output><output>
```

```
<user>manasa says: --- </user>
<myFriendCount>my friend preethi has 1 friends
</myFriendCount>
```

```
</output><output>
```

```
<user>sharath says: --- </user>
<myFriendCount>my friend ajay has 5 friends
</myFriendCount>
```

```
</output><output>
```

```
<user>manisha says: --- </user>
<myFriendCount>my friend ajay has 5 friends
</myFriendCount>
```

```
</output><output>
```

```
<user>dileep says: --- </user>
<myFriendCount>my friend chiranjeevi has 4 friends
</myFriendCount>
```

```
</output><output>
```

```
<user>preethi says: --- </user>
<myFriendCount>my friend manasa has 1 friends
</myFriendCount>
```

```
</output><output>
```

```
<user>paul says: --- </user>
<myFriendCount>my friend chiranjeevi has 4 friends
</myFriendCount>
```

```
</output><output>
```

```
<user>susan says: --- </user>
<myFriendCount>my friend ajay has 5 friends
</myFriendCount>
```

```
</output>
```

```
/*****
*****/
```

QUERY 6

```
<output>
```

```
<user>dileep : I received the following messages</user>
<message>date: 01/02/2012
subject: checking
content: does it work
sender: chiranjeevi
recepients: aparna ,ajay ,dileep ,
numberof replies: 2
</message>
```


</output><output>

<user>ajay : I received the following messages</user>
<message>date: 01/02/2012
subject: checking
content: does it work
sender: chiranjeevi
receptients: aparna ,ajay ,dileep ,
numberof replies: 2
</message>

</output><output>

<user>aparna : I received the following messages</user>
<message>date: 01/02/2012
subject: checking
content: does it work
sender: chiranjeevi
receptients: aparna ,ajay ,dileep ,
numberof replies: 2
</message>

</output><output>

<user>ajay : I received the following messages</user>
<message>date: 01/12/2012
subject: who am i?
content: a question with no answer
sender: chiranjeevi
receptients: ajay ,aparna ,manasa ,
numberof replies: 2
</message>

</output><output>

<user>aparna : I received the following messages</user>
<message>date: 01/12/2012
subject: who am i?
content: a question with no answer
sender: chiranjeevi
receptients: ajay ,aparna ,manasa ,
numberof replies: 2
</message>

</output><output>

<user>manasa : I received the following messages</user>
<message>date: 01/12/2012
subject: who am i?
content: a question with no answer
sender: chiranjeevi
receptients: ajay ,aparna ,manasa ,

numberof replies: 2
</message>

</output><output>

<user>manisha : I received the following messages</user>
<message>date: 01/22/2012
subject: gpl!!
content: sardar ki gpl today in sac
sender: aparna
recepipients: manasa ,sharath ,manisha ,
numberof replies: 1
</message>

</output><output>

<user>manasa : I received the following messages</user>
<message>date: 01/22/2012
subject: gpl!!
content: sardar ki gpl today in sac
sender: aparna
recepipients: manasa ,sharath ,manisha ,
numberof replies: 1
</message>

</output><output>

<user>sharath : I received the following messages</user>
<message>date: 01/22/2012
subject: gpl!!
content: sardar ki gpl today in sac
sender: aparna
recepipients: manasa ,sharath ,manisha ,
numberof replies: 1
</message>

</output><output>

<user>aparna : I received the following messages</user>
<message>date: 01/04/2012
subject: treat treat treat!!
content: placement treat
sender: ajay
recepipients: aparna ,manasa ,sharath ,
numberof replies: 3
</message>

</output><output>

<user>manasa : I received the following messages</user>
<message>date: 01/04/2012
subject: treat treat treat!!
content: placement treat

sender: ajay
receptients: aparna ,manasa ,sharath ,
numberof replies: 3
</message>

</output><output>

<user>sharath : I received the following messages</user>
<message>date: 01/04/2012
subject: treat treat treat!!
content: placement treat
sender: ajay
receptients: aparna ,manasa ,sharath ,
numberof replies: 3
</message>

</output><output>

<user>sharath : I received the following messages</user>
<message>date: 01/31/2012
subject: food in lobby
content: help yourselves
sender: manasa
receptients: sharath ,manisha ,dileep ,
numberof replies: 3
</message>

</output><output>

<user>dileep : I received the following messages</user>
<message>date: 01/31/2012
subject: food in lobby
content: help yourselves
sender: manasa
receptients: sharath ,manisha ,dileep ,
numberof replies: 3
</message>

</output><output>

<user>manisha : I received the following messages</user>
<message>date: 01/31/2012
subject: food in lobby
content: help yourselves
sender: manasa
receptients: sharath ,manisha ,dileep ,
numberof replies: 3
</message>

</output><output>

<user>manisha : I received the following messages</user>
<message>date: 03/02/2016

subject: going home for good :)
content: bangalore here i come!
sender: sharath
recepipients: manisha ,dileep ,preethi ,
numberof replies: 2
</message>

</output><output>

<user>dileep : I received the following messages</user>
<message>date: 03/02/2016
subject: going home for good :)
content: bangalore here i come!
sender: sharath
recepipients: manisha ,dileep ,preethi ,
numberof replies: 2
</message>

</output><output>

<user>preethi : I received the following messages</user>
<message>date: 03/02/2016
subject: going home for good :)
content: bangalore here i come!
sender: sharath
recepipients: manisha ,dileep ,preethi ,
numberof replies: 2
</message>

</output><output>

<user>dileep : I received the following messages</user>
<message>date: 01/12/2012
subject: oooo la la la
content: watte babe
sender: manisha
recepipients: dileep ,preethi ,paul ,
numberof replies: 2
</message>

</output><output>

<user>preethi : I received the following messages</user>
<message>date: 01/12/2012
subject: oooo la la la
content: watte babe
sender: manisha
recepipients: dileep ,preethi ,paul ,
numberof replies: 2
</message>

</output><output>

<user>paul : I received the following messages</user>
<message>date: 01/12/2012
subject: oooo la la la
content: watte babe
sender: manisha
recepipients: dileep ,preethi ,paul ,
numberof replies: 2
</message>

</output><output>

<user>preethi : I received the following messages</user>
<message>date: 09/02/2012
subject: voila
content: cet exams nationalized
sender: dileep
recepipients: preethi ,paul ,susan ,
numberof replies: 2
</message>

</output><output>

<user>paul : I received the following messages</user>
<message>date: 09/02/2012
subject: voila
content: cet exams nationalized
sender: dileep
recepipients: preethi ,paul ,susan ,
numberof replies: 2
</message>

</output><output>

<user>susan : I received the following messages</user>
<message>date: 09/02/2012
subject: voila
content: cet exams nationalized
sender: dileep
recepipients: preethi ,paul ,susan ,
numberof replies: 2
</message>

</output><output>

<user>paul : I received the following messages</user>
<message>date: 12/02/2012
subject: india in peril
content: dirty politics the sole reason!
sender: preethi
recepipients: paul ,susan ,chiranjeevi ,
numberof replies: 2
</message>

</output><output>

<user>chiranjeevi : I received the following messages</user>

<message>date: 12/02/2012

subject: india in peril

content: dirty politics the sole reason!

sender: preethi

receptients: paul ,susan ,chiranjeevi ,

numberof replies: 2

</message>

</output><output>

<user>susan : I received the following messages</user>

<message>date: 12/02/2012

subject: india in peril

content: dirty politics the sole reason!

sender: preethi

receptients: paul ,susan ,chiranjeevi ,

numberof replies: 2

</message>

</output><output>

<user>ajay : I received the following messages</user>

<message>date: 11/02/2012

subject: hello !!!

content: am bak!

sender: paul

receptients: susan ,chiranjeevi ,ajay ,

numberof replies: 2

</message>

</output><output>

<user>chiranjeevi : I received the following messages</user>

<message>date: 11/02/2012

subject: hello !!!

content: am bak!

sender: paul

receptients: susan ,chiranjeevi ,ajay ,

numberof replies: 2

</message>

</output><output>

<user>susan : I received the following messages</user>

<message>date: 11/02/2012

subject: hello !!!

content: am bak!

sender: paul

receptients: susan ,chiranjeevi ,ajay ,

numberof replies: 2

</message>

</output><output>

<user>aparna : I received the following messages</user>

<message>date: 09/22/2012

subject: good to go!

content: american football is a sad version of rugby

sender: susan

receipients: chiranjeevi ,ajay ,aparna ,

numberof replies: 3

</message>

</output><output>

<user>ajay : I received the following messages</user>

<message>date: 09/22/2012

subject: good to go!

content: american football is a sad version of rugby

sender: susan

receipients: chiranjeevi ,ajay ,aparna ,

numberof replies: 3

</message>

</output><output>

<user>chiranjeevi : I received the following messages</user>

<message>date: 09/22/2012

subject: good to go!

content: american football is a sad version of rugby

sender: susan

receipients: chiranjeevi ,ajay ,aparna ,

numberof replies: 3

</message>

</output>

/*****
*****/

QUERY 7

<output>

<user>revenue generated by me : chiranjeevi</user>

<myRevenue> I bought the following items: shoes ,cell phone , total = 139.98</myRevenue>

</output><output>

<user>revenue generated by me : susan</user>

<myRevenue> I bought the following items: mug , total = 4.99</myRevenue>

</output><output>

<user>revenue generated by me : ajay</user>

<myRevenue> I bought the following items: bag ,potato , total = 29.98</myRevenue>

</output><output>

<user>revenue generated by me : aparna</user>

<myRevenue> I bought the following items: car ,onions , total = 4047.98</myRevenue>

</output><output>

<user>revenue generated by me : manasa</user>

<myRevenue> I bought the following items: webcam ,milk , total = 89.98</myRevenue>

</output><output>

<user>revenue generated by me : sharath</user>

<myRevenue> I bought the following items: loafers ,lamp , total = 59.98</myRevenue>

</output><output>

<user>revenue generated by me : manisha</user>

<myRevenue> I bought the following items: shoes ,laptop , total = 409.98</myRevenue>

</output><output>

<user>revenue generated by me : dileep</user>

<myRevenue> I bought the following items: ipad , total = 444.99</myRevenue>

</output><output>

<user>revenue generated by me : preethi</user>

<myRevenue> I bought the following items: shoes ,iphone , total = 159.98</myRevenue>

</output><output>

<user>revenue generated by me : paul</user>

<myRevenue> I bought the following items: tequila , total = 6.99</myRevenue>

</output>