

TEST 3

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Given the grammar below, construct the automaton for LR parsing.

```
S' : div $  
div : SD text ED  
text : item text  
text :  
item : div  
item : CHAR
```

The automaton should contain 9 states (nodes) and **14** transitions (edges).

The diagram below shows 3 of the edges and all 9 nodes but only 2 of the nodes have been filled in.

Add the missing **11 edges** and fill in the remaining **7 nodes**.

Hint: 5 of the nodes each contain exactly one item.

