(a) $S$: 

```
   A
  / \
 B   C
```

(b) $T$: 

```
   A
  / \
-AD vertex
 B   C
```

(c) $R(T,S)$: 

```
   A
  / \
-AD vertex
 B   C
```

(c)  $R(T,S)$: 

```
   A
  / \
-AD vertex
 B   C
```

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 B   C
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