Q1

Parse tree:
```
                <stmt>
                  |
                <cond>
               /    \
        if <test> then  <stmt>
              |            |
             T1          <cond>
                        /  |  \        \
                    if <test> then <stmt> else <stmt>
                          |            |          |
                         T2            A          B
```

```
                <stmt>
              /   |   \        \
        If <test> then <stmt> else <stmt>
              |          |            |
             T1       <cond>          B
                     /  |  \
                 if <test> then <stmt>
                       |          |
                      T2          A
```
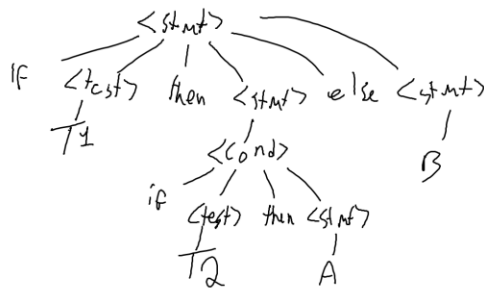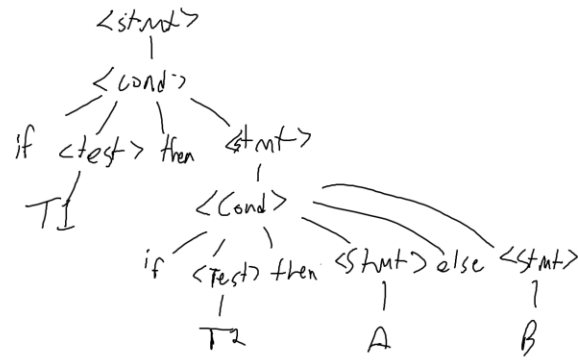
Q2

if T1 then { if T2 then { A } else { B } }

if T1 then { if T2 then { A } } else { B }

Q3

```
                <stmt>
                  |
                <cond>
               /  |  \        \
          if <test> then <stmt> else <stmt>
                |          |          |
               T1        <cond>       C
                        /  |  \       \
                   if <test> then <stmt> else <stmt>
                         |          |          |
                        T2          A          B
```