# Question 1:

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

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

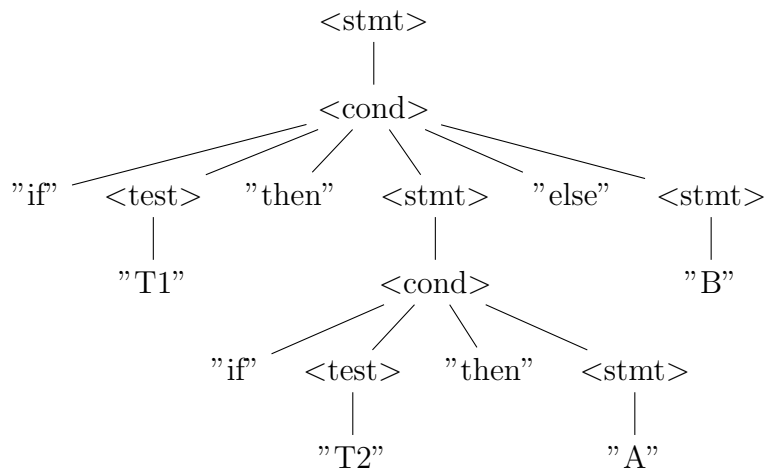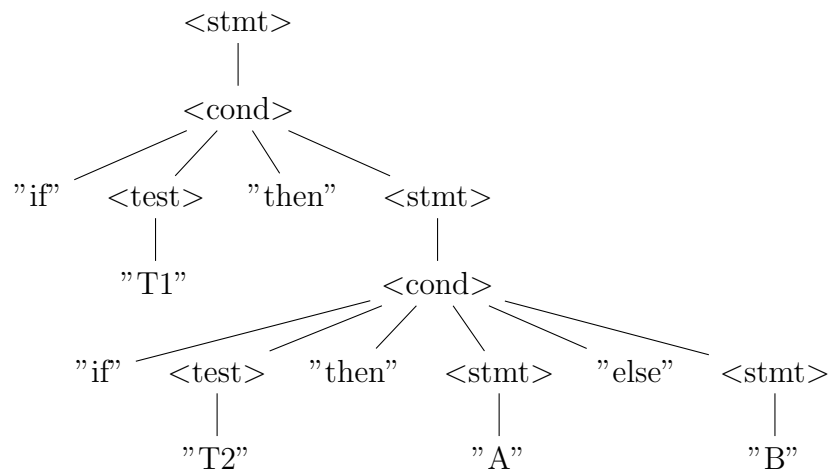# Question 2:

if T1 then if T2 then A fi else B fi
if T1 then if T2 then A else B fi fi

# Question 3:

```
                              <stmt>
                                │
                             <cond>
              ┌──────┬────────┼────────┬──────┐
           "if"  <test>   "then"   <stmt>   "else"   <stmt>
                    │                 │                  │
                  "T1"             <cond>               "C"
          ┌──────┬────────┼────────┬──────┐
       "if"  <test>   "then"   <stmt>   "else"   <stmt>
               │                 │                  │
             "T2"               "A"                "B"
```