

The description of a switch statement in the first edition of Tucker and Noonan is plain wrong, but very instructive. Their grammar is

<i>SwitchStatement</i>	→	<b>switch</b> ( <i>Expression</i> ) { <i>Cases</i> }
<i>Cases</i>	→	<i>Case</i> <i>Cases</i>   <i>Default</i>
<i>Case</i>	→	<i>CaseHead</i> <i>Case</i>   <i>CaseHead</i> <i>Statement</i>
<i>CaseHead</i>	→	<b>case</b> <i>Literal</i> :
<i>Default</i>	→	<b>default</b> : <i>Statement</i>

For semantics, they suggest an equivalence between switches and a series of ifs, that is

```
switch (e) {  
  case v1 : s1  
  case v2: s2  
  ...  
  case vn: sn  
  default: sn+1  
}
```

is equivalent to

```
if (e == v1) s1  
else if (e==v2) s2  
...  
else if (e==vn) sn  
else sn+1
```

How many errors can you find in this?