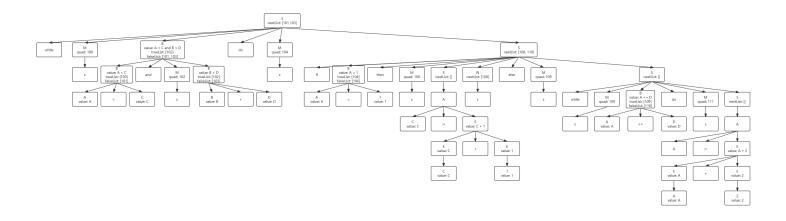
代码

```
while A < C and B < D do
if A = 1 then
    C := C + 1
else
    while A <= D do
    A := A + 2</pre>
```

文法

- 1. S \rightarrow if B then M1 S1 N else M2 S2
- 2. N ightarrow arepsilon
- 3. M ightarrow arepsilon
- 4. S \rightarrow M1 B do M2 S1
- 5. $S \rightarrow A$
- 6. A \rightarrow id := E
- 7. $E \rightarrow E + E$
- 8. E \rightarrow id/const
- 9. B ightarrow id/const rop id/const
- 10. B \rightarrow B and M B

语法树



中间代码

地址编号	中间代码	生成该中间代码的产生式编号	回填地址位的产生式编号
100	(j<,A,C,102)	9	10
101	(j,-,-,0)	9	?
102	(j<,B,D,104)	9	4
103	(j,-,-,0)	9	?
104	(j=,A,1,106)	9	1
105	(j,-,-,109)	9	1
106	(+,C,1,T1)	7	
107	(=,T1,-,C)	6	
108	(j,-,-,100)	2	4
109	(j<=,A,D,111)	9	4
110	(j,-,-,100)	9	4
111	(+,A,2,T2)	7	
112	(:=,T2,-,A)	6	
113	(j,-,-,109)	4	
114	(j,-,-,100)	4	