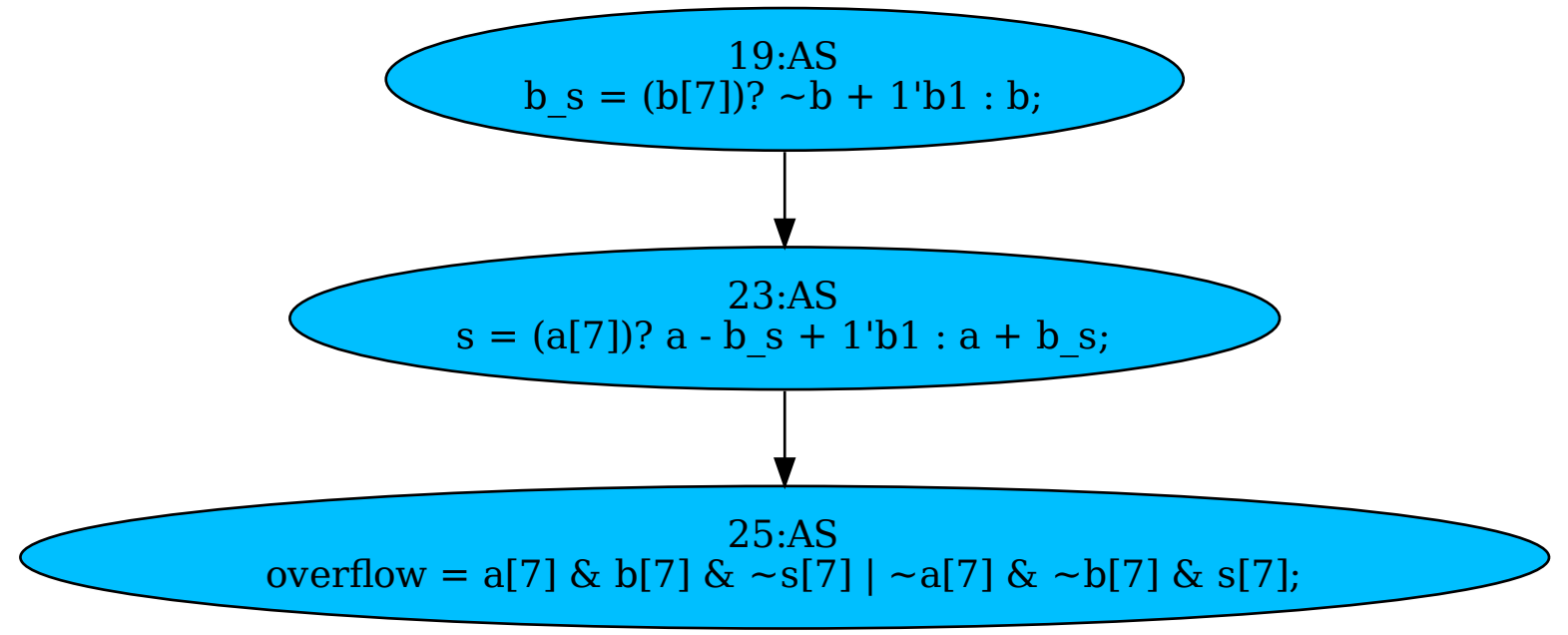


19:AS
 $b_s = (b[7])? \sim b + 1'b1 : b;$



```
graph TD; A([19:AS  
b_s = (b[7])? ~b + 1'b1 : b;]) --> B([23:AS  
s = (a[7])? a - b_s + 1'b1 : a + b_s;]); B --> C([25:AS  
overflow = a[7] & b[7] & ~s[7] | ~a[7] & ~b[7] & s[7];]);
```

23:AS
 $s = (a[7])? a - b_s + 1'b1 : a + b_s;$

25:AS
 $overflow = a[7] \& b[7] \& \sim s[7] | \sim a[7] \& \sim b[7] \& s[7];$