

16:AS
 $s = a + b;$

17:AS
 $s = \sim a \ \& \ \sim b \ \& \ (a \mid b);$

15:AS
 $\text{overflow} = a \ \& \ b \ \& \ s[7] \mid \sim a \ \& \ \sim b \ \& \ s[7];$

```
graph TD; N16([16:AS  
s = a + b;]) --> N15([15:AS  
overflow = a & b & s[7] | ~a & ~b & s[7];]); N17([17:AS  
s = ~a & ~b & (a | b);]) --> N15;
```