

15:AS  
 $s = a + b;$



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

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