

16:AS  
s = a + b;

17:AS  
s = ~a & ~b & (a | b);

15:AS  
overflow = a & b & s[7] | ~a & ~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;
```