

17:AS  
b\_signed = -b;

21:AS  
s = a + b\_signed;

25:AS  
overflow = a[7] & b\_signed[7] & ~s[7] | b\_signed[7] & a[7] & s[7];

```
graph TD; Node1([17:AS  
b_signed = -b;]) --> Node2([21:AS  
s = a + b_signed;]); Node1 --> Node3([25:AS  
overflow = a[7] & b_signed[7] & ~s[7] | b_signed[7] & a[7] & s[7];]); Node2 --> Node3;
```