

16:AS  
s = a + b;

```
graph TD; A([16:AS  
s = a + b;]) --> B([19:AS  
overflow = a[7] & b[7] & ~s[7] | a[7] & (~s[7] & ~s[6] & b[6]);]);
```

19:AS  
overflow = a[7] & b[7] & ~s[7] | a[7] & (~s[7] & ~s[6] & b[6]);