

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])? ~a[6] & ~b[6] & ~s[6] | a[6] & b[6] & s[6] : a[6] & ~b[6] & s[6] :  
(a[7])? ~a[6] & b[6] & ~s[6] | a[6] & ~b[6] & s[6] : a[6] & b[6] & s[6];]);
```

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