

15:AS
s = a + b;

```
graph TD; A([15:AS  
s = a + b;]) --> B([16:AS  
overflow = (a[7] == 0) && (b[7] == 0) && (s[7] == 1) || (a[7] == 1) && (b[7] == 1) && (s[7] == 0);]);
```

16:AS
overflow = (a[7] == 0) && (b[7] == 0) && (s[7] == 1) || (a[7] == 1) && (b[7] == 1) && (s[7] == 0);