

15:AS
b_signed = { b[6:0], b[7] };

```
graph TD; Node15["15:AS  
b_signed = { b[6:0], b[7] };"] --> Node19["19:AS  
overflow = a[7] & b_signed[7] | b[7] & a[7];"]; Node15 --> Node17["17:AS  
s = a + b_signed;"];
```

19:AS
overflow = a[7] & b_signed[7] | b[7] & a[7];

17:AS
s = a + b_signed;