

17:AS
b_signed = (b[7] == 1'b1)? ~b : b;

```
graph TD; N17([17:AS  
b_signed = (b[7] == 1'b1)? ~b : b;]) --> N19([19:AS  
s = a + b_signed;]); N17 --> N21([21:AS  
overflow = ((a[7] == b_signed[7]) && (a[7] != s[7]))? 1'b1 : 1'b0;]); N19 --> N21;
```

19:AS
s = a + b_signed;

21:AS
overflow = ((a[7] == b_signed[7]) && (a[7] != s[7]))? 1'b1 : 1'b0;