

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

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

19:AS
s = a + b_signed;

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