

15:AS
s = a ^ b;

```
graph TD; N15([15:AS  
s = a ^ b;]) --> N16([16:AS  
overflow = (a[7] == 1) && (b[7] == 1) && (s[7] == 0) || (a[7] == 0) && (b[7] == 0) && (s[7] == 1);]);
```

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