

15:AS

$s[0] = (a[0] \wedge b[0]) + (a[1] \wedge b[1]) + (a[2] \wedge b[2]) + (a[3] \wedge b[3]) + (a[4] \wedge b[4]) + (a[5] \wedge b[5]) + (a[6] \wedge b[6]) + (a[7] \wedge b[7]);$



16:AS

$\text{overflow} = (s[7] \wedge a[7]) * (s[7] \wedge b[7]);$