



Concrete illustration for SR of a 2-bit size

SR (in bits) = [1,0]  
label[0] = 13  
label[1] = 17  
prover\_sum = 30

$$\text{sum} = 1 \cdot 9 + 0 \cdot -7 = 9$$
$$\text{assert } 30 == 39 - 9$$

labels[0][0] = 22    labels[0][1] = 13  
labels[1][0] = 17    labels[1][1] = 24  
delta[0] = 22-13 = 9  
delta[1] = 17-24 = -7  
zero\_sum = 22+17 = 39