

# RIDUZIONE 3-SAT < SUBSET-SUM

lunedì 12 giugno 2023 12:07

$$\emptyset = (\bar{x}_1 \vee x_2 \vee \bar{x}_3) \wedge (x_1 \vee x_2 \vee x_3) \wedge (x_1 \vee \bar{x}_2 \vee x_3) \wedge (\bar{x}_1 \vee \bar{x}_2 \vee \bar{x}_3) \quad 6 + 8 = 14$$

$2m+2k$

	$x_1$	$x_2$	$x_3$	$c_1$	$c_2$	$c_3$	$c_4$
$x_1$	1	0	0	1	1	0	
$\bar{x}_1$	0	1	0	0	0	1	
$x_2$	0	1	0	1	1	0	
$\bar{x}_2$	0	0	0	0	1	1	
$x_3$	0	0	1	0	1	1	0
$\bar{x}_3$	0	0	1	1	0	0	1
	0	0	0	1	0	0	1
	0	0	0	0	1	0	0
	0	0	0	0	0	1	0
	0	0	0	0	0	0	1
	0	0	0	0	0	0	0
	1	1	1	1	1	1	1

$$x_1 = \text{nero}$$

$$x_2 = \text{giallo}$$

$$x_3 = \text{nero}$$