

Project 5.1

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1)

a - bar $d_1 d_0$

	$d_1' * d_0'$	$d_1' * d_0$	$d_1 * d_0$	$d_1 * d_0'$
$d_3' * d_2'$	1	0	1	1
$d_3' * d_2$	0	1	1	0
$d_3 * d_2$	X	X	X	X
$d_3 * d_2'$	1	1	X	X

$d_0' d_3' d_2'$

$d_0 d_2$

d_3

$a = d_3 + d_0' d_3' d_2' + d_1 d_0 + d_0 d_2$

b - bar d_2'

	$d_1' * d_0'$	$d_1' * d_0$	$d_1 * d_0$	$d_1 * d_0'$
$d_3' * d_2'$	1	1	1	1
$d_3' * d_2$	1	0	1	0
$d_3 * d_2$	X	X	X	X
$d_3 * d_2'$	1	1	X	X

$d_1' d_0'$

$d_1 d_0$

$b = d_2' + d_1' d_0' + d_1 d_0$

c - bar

	$d_1' * d_0'$	$d_1' * d_0$	$d_1 * d_0$	$d_1 * d_0'$
$d_3' * d_2'$	0	1	3	1
$d_3' * d_2$	4	5	7	6
$d_3 * d_2$	X	X	X	X
$d_3 * d_2'$	8	9	X	X

d_2

d_1'

d_0

$c = d_0 + d_1' + d_2$

d - bar $d_1 d_0'$

	$d_1' * d_0'$	$d_1' * d_0$	$d_1 * d_0$	$d_1 * d_0'$
$d_3' * d_2'$	1	0	1	1
$d_3' * d_2$	0	1	0	1
$d_3 * d_2$	X	X	X	X
$d_3 * d_2'$	1	0	X	X

$d_1' d_1' d_0'$

$d_3 d_1' d_0$

$d_2' d_1$

$d = d_2' d_1' d_0' + d_1 d_1' d_0 + d_1 d_0' + d_2' d_1$

e - bar

	$d_1' * d_0'$	$d_1' * d_0$	$d_1 * d_0$	$d_1 * d_0'$
$d_3' * d_2'$	1	0	0	1
$d_3' * d_2$	0	0	0	1
$d_3 * d_2$	X	X	X	X
$d_3 * d_2'$	1	0	X	X

$d_0' d_2'$

$d_1 d_0'$

$e = d_0' d_2' + d_1 d_0'$

f - bar

	$d_1' * d_0'$	$d_1' * d_0$	$d_1 * d_0$	$d_1 * d_0'$
$d_3' * d_2'$	1	0	0	0
$d_3' * d_2$	1	1	0	1
$d_3 * d_2$	X	X	X	X
$d_3 * d_2'$	1	1	X	X

$d_2 d_1'$

$d_2 d_0'$

$d_1 d_0'$

d_3

$f = d_3 + d_1' d_0' + d_2 d_1' + d_2 d_0'$

g - bar $d_1 d_0'$

	$d_1' * d_0'$	$d_1' * d_0$	$d_1 * d_0$	$d_1 * d_0'$
$d_3' * d_2'$	0	0	1	1
$d_3' * d_2$	1	1	0	1
$d_3 * d_2$	X	X	X	X
$d_3 * d_2'$	1	1	X	X

$d_2 d_1'$

d_3

$d_2' d_1$

$g = d_3 + d_2' d_1 + d_1 d_0' + d_2 d_1'$