

# 4.3c But

start from initial domains

"eliminate" 1D

constraints  $ID[1] = 1A[1]$ ,  $ID[2] = 3A[1]$ ,  $ID[3] = 4A[2]$

$ID[5] = 6A[1]$

ID	1A	ID	3A	ID	4A	ID	6A
<u>d</u> ance	<u>d</u> esk	<u>d</u> ance	at	<del><u>d</u>ance</del>		so <u>u</u> nd	<u>d</u> esk
<del>u</del> sage		h <u>a</u> ste	at	<del>h<u>a</u>ste</del>		th <u>i</u> nk	<u>k</u> ind
<del>f</del> irst		<del>s</del> ense		so <u>u</u> nd	f <u>u</u> els	so <u>u</u> nd	<u>d</u> ove
<del>l</del> oses		so <u>u</u> nd	o <u>n</u>	th <u>i</u> nk	<del>f</del> irst		
<del>f</del> uels		th <u>i</u> nk	h <u>e</u>	th <u>i</u> nk	g <u>i</u> ven		
<del>h</del> aste	h <u>e</u> lp						
<del>g</del> iven							
s <u>e</u> nse	so <u>o</u> n						
so <u>u</u> nd	so <u>o</u> n						
th <u>i</u> nk	th <u>i</u> s						
<u>d</u> ance	<u>d</u> ove						



ID	1A	3A	4A	6A
so <u>u</u> nd	so <u>o</u> n	o <u>n</u>	f <u>u</u> els	<u>d</u> esk
so <u>u</u> nd	so <u>o</u> n	o <u>n</u>	f <u>u</u> els	<u>d</u> ove
th <u>i</u> nk	th <u>i</u> s	h <u>e</u>	f <u>i</u> rst	<u>k</u> ind
th <u>i</u> nk	th <u>i</u> s	h <u>e</u>	g <u>i</u> ven	<u>k</u> ind

"eliminate" 6A

$$6A[1] = 1D[5], 6A[3] = 5D[3]$$

ID	1A	3A	4A	6A
sound	soon	on	fuels	desk
sound	soon	on	fuels	dove
think	this	he	first	Kind
think	this	he	given	Kind

6A	5D
desk	loses
dove	given
Kind	dance
desk	haste
Kind	sense



ID	1A	3A	4A	6A	5D
sound	soon	on	fuels	desk	loses
sound	soon	on	fuels	desk	haste
sound	soon	on	fuels	dove	given
think	this	he	first	Kind	dance
think	this	he	first	Kind	sense
think	this	he	given	Kind	dance
think	this	he	given	Kind	sense

eliminate 4A

$$4A[3] = 2D[3]$$

$$4A[2] = 1D[3]$$

$$4A[4] = 5D[1]$$



ID	1A	3A	4A	6A	5D	4A	2D	4A	5D
sound	soon	on	fuels	desk	loses	fuels	one	fuels	loses
<del>sound</del>	<del>soon</del>	<del>on</del>	<del>fuels</del>	<del>desk</del>	<del>haste</del>	<del>first</del>	<del>her</del>	<del>first</del>	<del>sound</del>
<del>sound</del>	<del>soon</del>	<del>on</del>	<del>fuels</del>	<del>dove</del>	<del>given</del>	<del>given</del>		<del>first</del>	<del>sense</del>
<del>think</del>	<del>this</del>	<del>he</del>	<del>first</del>	<del>kind</del>	<del>dance</del>				
think	this	he	first	kind	sense				
<del>think</del>	<del>this</del>	<del>he</del>	<del>given</del>	<del>kind</del>	<del>dance</del>				
<del>think</del>	<del>this</del>	<del>he</del>	<del>given</del>	<del>kind</del>	<del>sense</del>				

natural join  
(join on all  
equality  
common  
variables)

ID	1A	3A	4A	6A	5D	2D
sound	soon	on	fuels	desk	loses	one
think	this	he	first	kind	<del>dance</del> sense	her



Keep eliminating