

ICS 661 Quiz 7

Fill out the rest of the probabilistic CKY chart (from exercise 14.4 in the textbook).

$S \rightarrow NP VP$	.80	$Det \rightarrow the$	.40
$NP \rightarrow Det N$	.30	$Det \rightarrow a$	.40
$VP \rightarrow V NP$	.20	$N \rightarrow meal$	.01
$V \rightarrow includes$	.05	$N \rightarrow flight$	.02

Det: .40	NP: $.30 * .40 * .02$ = .0024			
[0, 1]	[0, 2]	[0, 3]	[0, 4]	[0, 5]
	N: .02			
	[1, 2]	[1, 3]	[1, 4]	[1, 5]
		V: .05		
		[2, 3]	[2, 4]	[2, 5]
			[3, 4]	[3, 5]
				[4, 5]
The	flight	includes	a	meal