## Semaphore Solution (combined)

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process bee [i=1 to N] { while (true) { <i>collect_honey();</i>		$pot_full = 0;$	<ul><li># mutual exlusion</li><li># synchr bear/bees</li><li># portions in the pot</li></ul>
<b>P</b> (mutex);			
fill_pot();			
portions++;			
if (portions == H)			
$V$ (pot_full); # let the bear eat honey, pass mutex baton			
else			
V (mutex);		# let other bees to fill the pot	
}	process bear {		
}	while (true) { P (pot_full); # wait until the pot is full sleep		
	eat_all_honey(); # eat		
	portions=0;		
	V (mutex); # let bees start filling the pot again		
	<pre>}````````````````````````````````````</pre>	·	
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**Discussion B**