

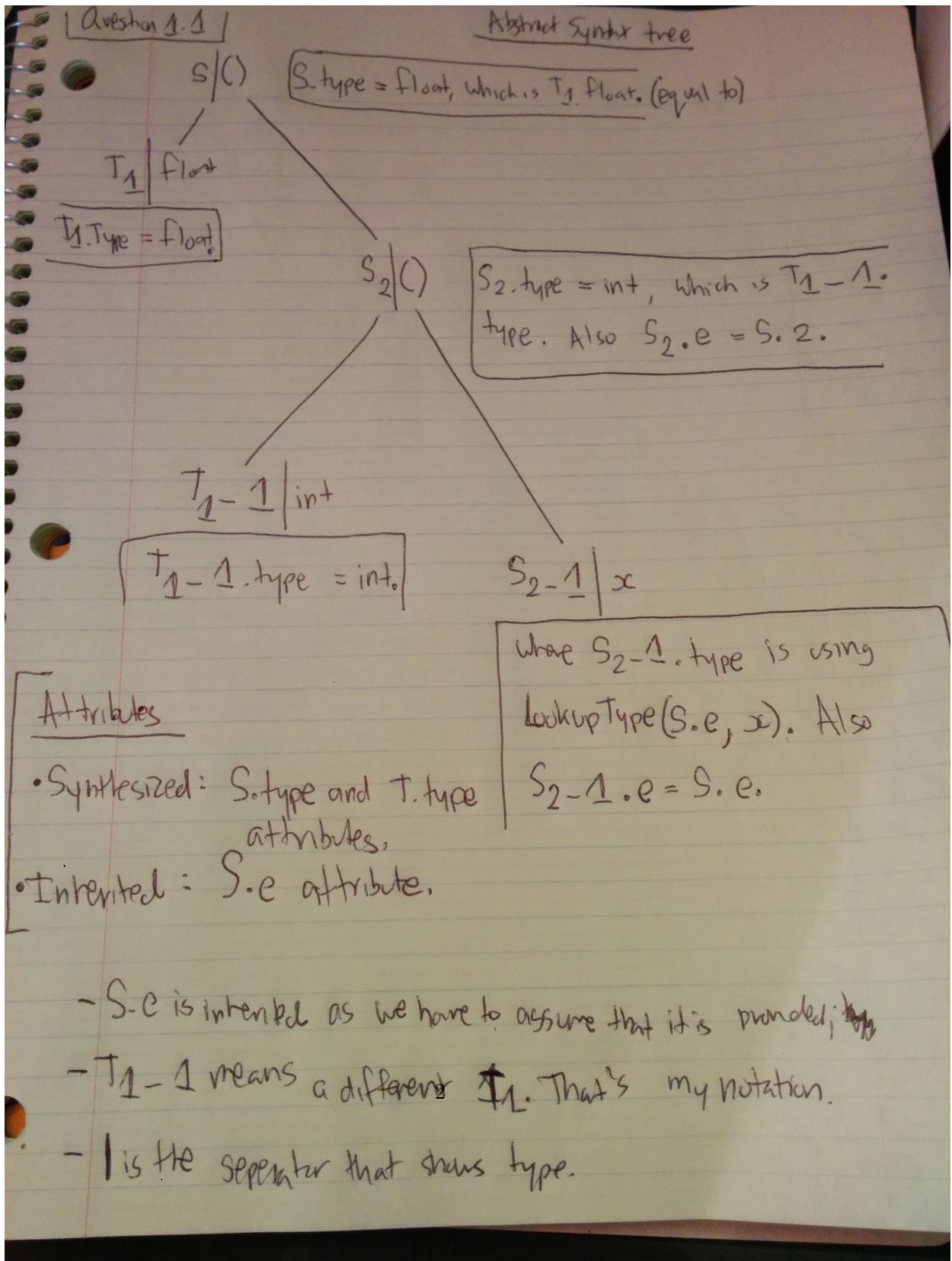
Homework 6

Abhi Agarwal

Talked to Tyler about this to discuss the ability to declare functions inside SDD.

1 Casting

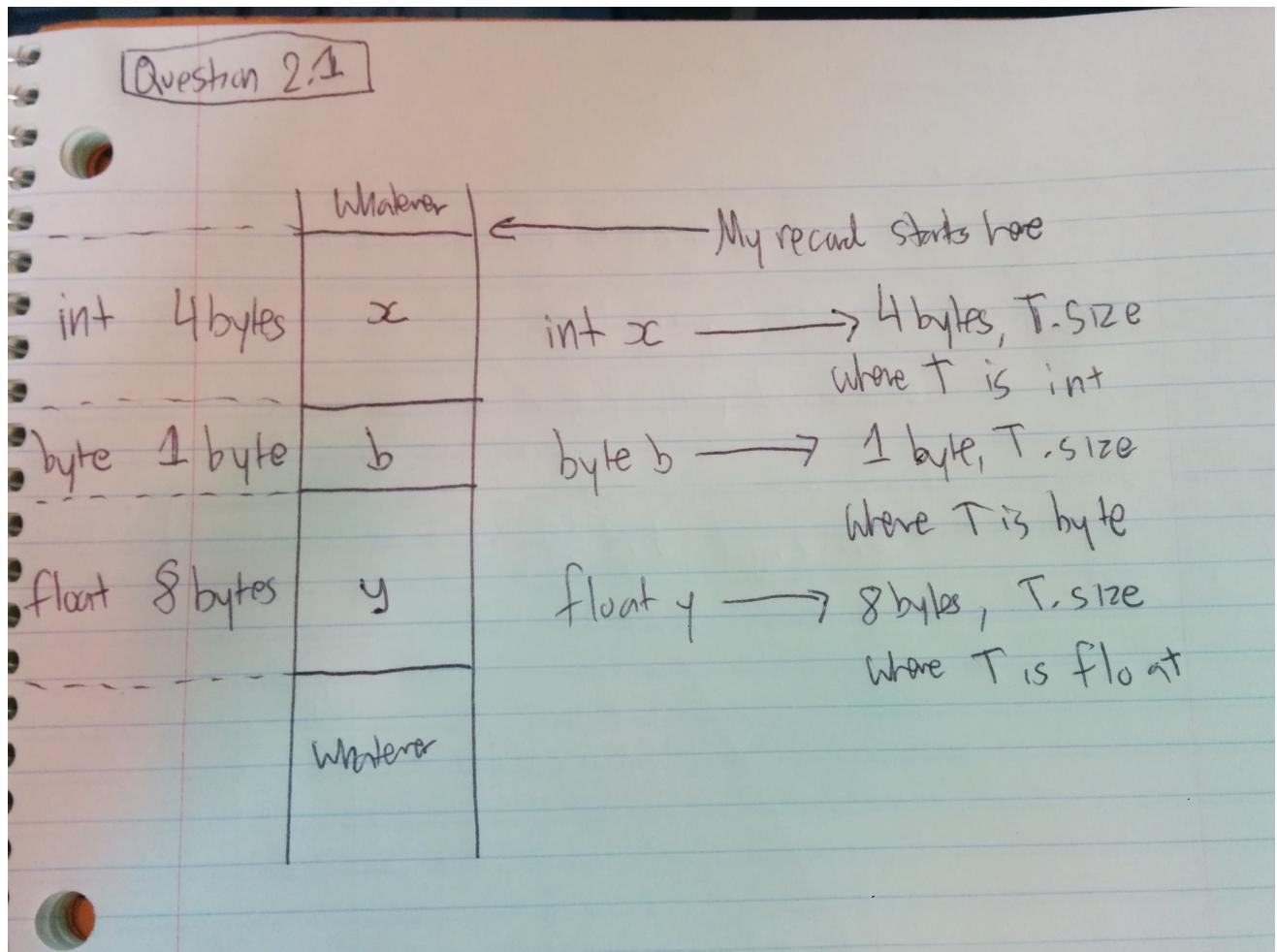
Question 1.1



Question 1.2

2 Records

Question 2.1



Question 2.2

Note that there is no ; after `T.size` in my correction statement. I accidentally put that in. And the missing word is *command*. Also I'd like to add my reference for page 376, which has the exact situation here.

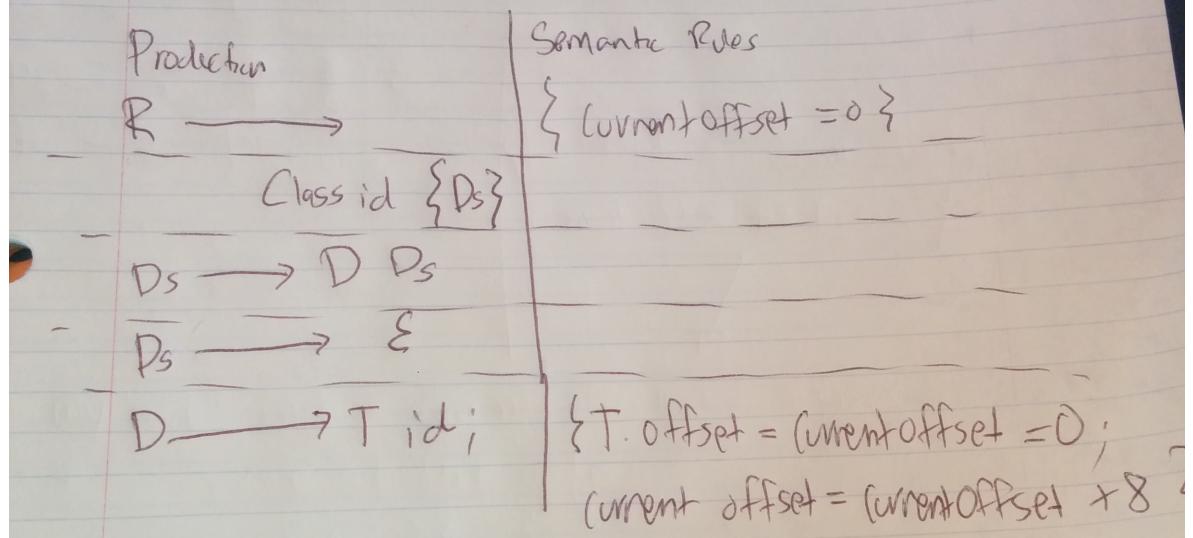
Production	Initialization	Semantic Rules
$R \rightarrow$		$\{ \text{Current Offset} = 0 \}$
	$\text{Class id } \{ D_s \}$	
$D_s \rightarrow D D_s$		
$D_s \rightarrow \boxed{ } \boxed{ } \epsilon$		
$D \rightarrow T \text{ id ; }$		$\{ T.\text{offset} = \text{current offset}; $ $\text{current offset} + T.\text{size} \}$
		↓
<ul style="list-style-type: none"> - my bad: in the current offset += T.size I used +=, please substitute with $\text{current offset} = \text{current offset} + T.\text{size};$ - Initialization is before we run the class id $\{ D_s \}$ command so I gave it its own line. - The {} are as page 383 denotes. 		

Question 2.3

There is a } after +8 that you can't see here.

Qustion 23

In this problem T.size becomes not important as all individually addressable units must be aligned to an address, and so we such it to just being plus 8.



- Same deal applies here. I made & fixed my += mistake here.
- Source page 383 and 376.