

COMP302 A4
QUESTION 3 AND 4
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Q3)

93) $l = c, x = b$

from the match: $c = a\text{-list}$ $a\text{-fresh}$

$\text{fun } x \rightarrow x$ is $b \rightarrow b$

$[] \rightarrow (\text{fun } x \rightarrow x)$ is $a \rightarrow (b \rightarrow b)$

f returns type a

$f :: fs$ is $a\text{-list}$

a is equal to $(b \rightarrow b)$

so

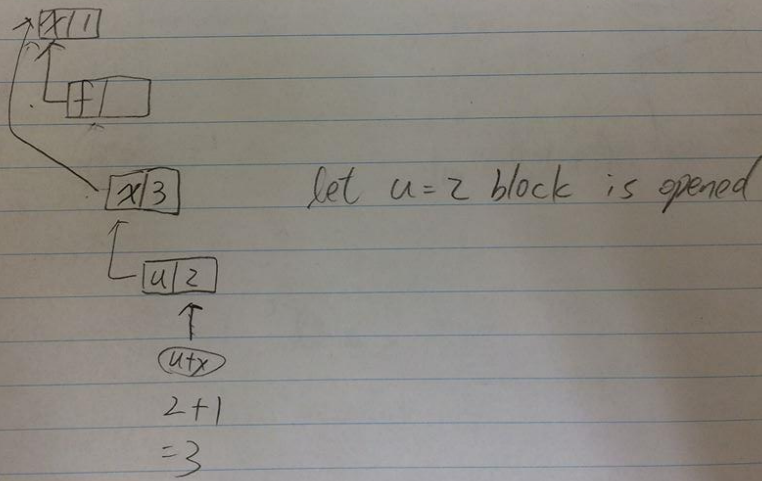
$(b \rightarrow b)\text{ list} \rightarrow \text{fun } x \rightarrow \text{apply-list}(fs)(f)$

which is

$(b \rightarrow b)\text{ list} \rightarrow (b \rightarrow b)$

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Q4 1. let $x=1$ in
let $f=$
let $x=(\text{let } u=z \text{ in } u+x)$



3) the execution of

