TUTORIAL 2

v0 does not have to be saved as caller, as v0 is a return value

Q1

	Main	F	G
Callee:	$ra, $s0, $s1	Callee: $ra, $s0, $s1	Callee: $ra, $s3
Caller:	$a0	Caller: $a0, $t1	Caller: —

Q2

(Register Address)

~~Opcode~~ will increase from 5 to 6 bits

R_s, R_t, R_d

Q3

$$\frac{2^{15}-1}{4} \quad \text{(space available)}$$

(space rep for int)

(1's 2 complement) $\Rightarrow 2^{13}-1 \Rightarrow 8191$

Q4

1. (a) Yes
   (p1·0, p2·0)

   (b) Since $s1, $s0 are both callee preserved, # swapping them shouldn't cause an issue (so, YES)
   (q1·0, q2·0)

2. a) Yes (p1·0, p2·0) b) No, since we are using an external library; their ~~callee~~ (temporary) ~~saved~~ and $t1, $s0 are ~~callee~~ and caller saved respectively.

t0 is caller saved and s0 is callee saved