

$(f\ f)$ causes an error with/in the interpreter because the variable input, $\langle f \rangle$, is supposed to be some kind of procedure to apply to the number 2. Since we don't input a defined procedure into $(f \ _)$, ~~that~~ it doesn't know what to do to the number 2 — ~~the~~ procedure $\langle g \rangle$ is never specified.