Exercise : Operational Semantics

Consider the following SIMP program:

$$\texttt{x := 7; while !y < !x do x := !x - !y}$$

and an initial store:

$$s = \{\ y \mid\!\!\rightarrow 5\ \}$$

Evaluate this program using the abstract machine, small-step operational se- mantics, and big-step operational semantics.

Abbrevation	Code
P	x := 7; while !y < !x do x:= !x - !y
W	while !y < !x do x:= !x - !y
B	!y < !x
C_1	x := 7
C_2	x:= !x - !y