COMS22201

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Class TEST

03/03/2016

Give a direct characterisation of the denotational semantics of this program:

while
$$\neg (x=1)$$
 do $(y:=y*x; x:=x-1)$

with respect to the standard denotational semantics of While statements:

where

cond(b, c, d)
$$x = \begin{cases} c(x) & \text{if } b(x) = tt \\ d(x) & \text{otherwise} \end{cases}$$

along with the usual semantics of Boolean and arithmetic expressions.

Please enter your characterisation here: