COMP-301 PS-9

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1-)

a= (proc(x) 3) = proc (3)
b= (proc(x) 7) = proc (7)

when we call (a 3), for a, the value in the location of the counter increments by 1. When we call (a 3) 2 times, the value in the location of the variable called counter increments by 2. So, for a, 3 inside the counter's location becomes 3+2 (5) . When we call (b 3), the value in the location of the variable called counter increments by 1. So, for b, 7 inside the counter's location becomes 7+1 (8).

So, at the end; the value of (a 3) is equal to 5, and the value of (b 3) is equal to 8.

At the end, we are supposed to subtract (a 3) from (b 3). So, we will get 8-5 (3) as the return value of this function.

(b 3)-(a 3)=8-5=3

So, 3 is the return value of this function.