**Answer:** **(D)**   
  
**Explanation:** Recursive relation for the DoSomething() is

T(n) = T() + C1 if n > 2

We have ignored the floor() part as it doesn’t matter here if it’s a floor or ceiling.

Let n = 2^m, T(n) = T(2^m)

Let T(2^m) = S(m)

From the above two, T(n) = S(m)

S(m) = S(m/2) + C1 /\* This is simply binary search recursion\*/

S(m) = O(logm)

= O(loglogn) /\* Since n = 2^m \*/

Now, let us go back to the original recursive function T(n)

T(n) = S(m)

= O(LogLogn)