

The last instruction to be executed was a call to f which is defined as (fun $u \rightarrow u + x + y$) where the x is the sum of the value of ref y at that time (1) and 3. f was called with value of ref y plus 3 which was (6+3=9). Finally, because function f uses the reference y and the contents of y has since changed to 6, the function f evaluates (9+4+6=19)