



```

let y = ref 1 in
let x = 2 in
let f =
  (let x = !y + 3 in (y := 4; fun u -> u + x + !y)) in
  let x = 3 in
  (y := !y + 2;
   f(!y + 3))

```

The final result:
simplifying the function to the following:
 $f(6+3) =$
 $u = u + x + !y$
 $u = (6+3) + 4 + 6$
Result: 19