MFP vs MOP Example

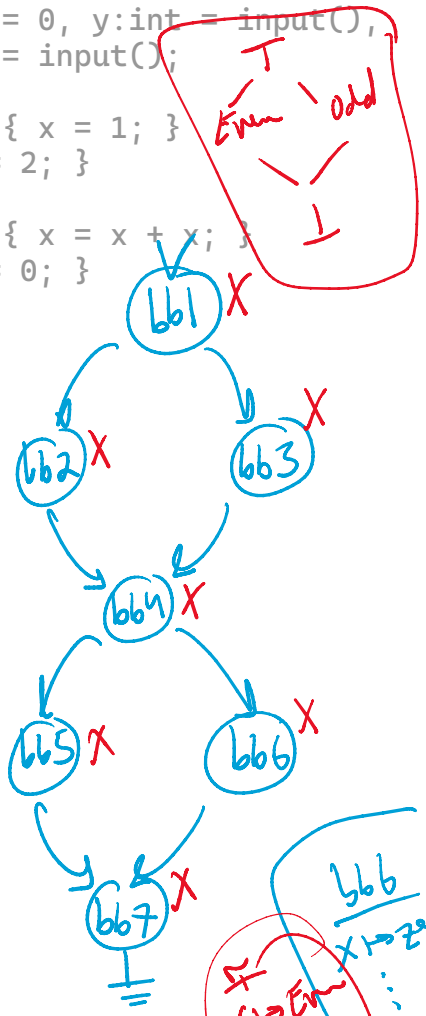
Tuesday, January 9, 2024 12:36 AM

```
let x:int = 0, y:int = input(),
    z:int = input();

if y != 0 { x = 1; }
else { x = 2; }

if z != 0 { x = x + x; }
else { x = 0; }

x = x + x;
return x;
```




```
bb1: x = $copy 0
     y = $call_ext input()
     z = $call_ext input()
     tmp1 = $cmp neq y 0
     $branch tmp1 bb2 bb3

bb2: x = $copy 1
     $jump bb4

bb3: x = $copy 2
     $jump bb4

bb4: tmp2 = $cmp neq z 0
     $branch tmp2 bb5 bb6

bb5: x = $arith add x x
     $jump bb7

bb6: x = $copy 0
     $jump bb7

bb7: x = $arith add x x
     $ret x
```