Solution

```
[[fn f => fn x => if x > 0 then f x else f (-1 * x)]]FUN w -> report w
```

4pts
```
= (FUN w -> report w)(FN  -> [[fn  => if x > 0 then f x else f (-1 * x)]] )
```

4pts
```
= (FUN w -> report w)(FN f k0 -> k0(  -> [[if x > 0 then f x else f (-1 * x)]]))
```

4pts
```
= (FUN w -> report w)
    (FN f k0 -> k0(FN x k1 -> [[x > 0]]  -> IF  THEN [[f x]]k1 ELSE [[f (-1 * x)]]k1 ))
```

4pts
```
= (FUN w -> report w)
    (FN f k0 -> k0(FN x k1 -> [[x > 0]]FUN a -> IF a THEN [[f]] -> [[x]] -> k1 ELSE [[f (-1 * x)]]k1 ))
```

1pt
```
= (FUN w -> report w)
    (FN f k0 -> k0(FN x k1 -> [[x > 0]]FUN a -> IF a THEN [[f]]FUN b -> (FUN c -> b c k1) x ELSE [[f (-1 * x)]]k1 ))
```

1pt
```
= (FUN w -> report w)
    (FN f k0 -> k0(FN x k1 -> [[x > 0]]FUN a -> IF a THEN (FUN b -> (FUN c -> b c k1) x) f ELSE [[f (-1 * x)]]k1 ))
```

4pt
```
= (FUN w -> report w)
    (FN f k0 ->
    k0(FN x k1 ->
      [[x > 0]]FUN a -> IF a THEN (FUN b -> (FUN c -> b c k1) x) f ELSE [[f]]  -> [[-1 * x]]  -> k1 ))
```

4pt
```
= (FUN w -> report w)
    (FN f k0 ->
    k0(FN x k1 ->
      [[x > 0]]FUN a -> IF a THEN (FUN b -> (FUN c -> b c k1) x) f                          ))
                          ELSE [[f]]FUN b -> [[(-1)]]  -> [[x]]  -> (FUN c -> b c k1)(  * )
```

1pt
```
= (FUN w -> report w)
    (FN f k0 ->
    k0(FN x k1 ->
      [[x > 0]]FUN a -> IF a THEN (FUN b -> (FUN c -> b c k1) x) f                          ))
                          ELSE [[f]]FUN b -> [[(-1)]]FUN d -> (FUN e -> (FUN c -> b c k1)(d * e)) x
```

1pt
```
= (FUN w -> report w)
    (FN f k0 ->
    k0(FN x k1 ->
      [[x > 0]]FUN a -> IF a THEN (FUN b -> (FUN c -> b c k1) x) f                          ))
                          ELSE [[f]]FUN b -> (FUN d -> (FUN e -> (FUN c -> b c k1)(d * e)) x) -1
```

1pt
```
= (FUN w -> report w)
    (FN f k0 ->
    k0(FN x k1 ->
      [[x > 0]]FUN a -> IF a THEN (FUN b -> (FUN c -> b c k1) x) f                          ))
                          ELSE (FUN b -> (FUN d -> (FUN e -> (FUN c -> b c k1)(d * e)) x) -1) f
```

4pt
```
= (FUN w -> report w)
    (FN f k0 ->
    k0(FN x k1 ->
      [[x]]  -> [[0]]  -> (FUN a -> IF a THEN (FUN b -> (FUN c -> b c k1) x) f
                                    ELSE (FUN b ->
                                          (FUN d -> (FUN e -> (FUN c -> b c k1)(d * e)) x) -1) f)(  >  )))
```

1 pt
```
= (FUN w -> report w)
    (FN f k0 ->
    k0(FN x k1 ->
      [[x]]FUN g -> (FUN h -> (FUN a -> IF a THEN (FUN b -> (FUN c -> b c k1) x) f                          ))
                                  ELSE (FUN b ->
                                        (FUN d -> (FUN e -> (FUN c -> b c k1)(g * h)) x) -1) f)(e > g)) 0
```

1 pt
```
= (FUN w -> report w)
    (FN f k0 ->
    k0(FN x k1 ->
     (FUN g -> (FUN h -> (FUN a -> IF a THEN (FUN b -> (FUN c -> b c k1) x) f
                                 ELSE (FUN b ->
                                       (FUN d -> (FUN e -> (FUN c -> b c k1)(d * e)) x) -1) f)(g > h)) 0) x))
```