$$f(n) = \begin{cases} 0 & \text{if } n = 0 \text{ I} \\ 2n - 1 + f(n - 1) & \text{if } n > 0 \text{ 2} \end{cases}$$
 $f(n) = n^2$ $f(n) = n^2$

WTP)
$$f(0) = 0$$

$$f(0) = 0$$

$$f(0) = 0$$
Assignment Project Heath Help

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$$I_{0}H) F(k) = k^{2}$$

with $F(k+1) = (k+1)^{2}$

$$F(k+1)$$
= $2(k+1)-1+F(k)$
= $2k+1+k^2$
= k^2+2k+1

= k^2+2k+1

< (b+1)?

```
Sum Ls = foldr (+) 0 ls
                                    GOAL T
foldr :: (a -> b -> b) -> b -> b
foldr f z [] = z
foldr f z (x:xs) = x `f` foldr f z xs
   Bore Case (65 = [])
                WTP) Sum C] = 0
                        Inductive Come (les = x: xs)
                (.H) 50m 25 = John a) 0 25 E
                WTP) Som (x:x5) = Foldr (+) 0 (x:x5)
                    Sum (x:x5) = X+ Sum x5
                             2 x foldr (+) 0 xs
                             = \int dlr (+) O(x:xs)
```

sum :: [Int] -> Int