S.KIMMEL

Proof of Correctness Using Induction Count 8 (int n) ( Can use Induction if len(n) = 1: if n== 8 return 1 else: return O d= n %10; if d==8: return 1 + count 8 ([n/10]) else: return count 8(n/10) Count 8' (int n) e Need Strong Induction if len(n)=1 if N==8: return 1 else return O else half=|len(n)/2/; return Count 8' (n/10half) + (ount 8' (n% 10half) Plicker