1) Irduktion über Large der Liste X. Def: new 1 (reo1 × Y) = new 1 (rev 1 [] Y) Z

Def: new 1 Y Z = new 1 Y (app [] Z) = new 1 Y (app x Z) J-Sarih X=XS -> X= REEXS J. Sellus real (real (REEXS) y) Z= real (rev) XS (REEY))Z S. Am. new 1 (h: xy) (app xs z) Det. Mev 1 y (h: app xs z) Pet. rev 1 y (app xz) 2) Induktion üler Länge der Linke X I And: New (New []) Tet New [] Det. [] S. Schitt: X=XS -> X= R=3XS Anmerkung: Da im I-Schritt die I-Annahme nie benötigt wurde, ist die Aufgabe 2) auch über eine Fallunterscheidung x=[] und x=h::xs lösbar J. Sollers: rev (rev (As 5xs)) Defrev (apr (rev xs) [RJ) = rev (rev 1 xs [RJ) Def. rev(rev 1 (R: XS)[J) = app (rev (rev ) (hexs)(J)(J=rev) (rev 1 (R: XS)(J)(J) 12 rev1 [] (app (h==xs) [] (A==xs) Det. h==xs =x 3) Induktionüber Läng der Liste X J.Anf.: reV(app Gev [J) (rev y))=rev(app [J Grev y))

of rev (rev y)= forman

y= app y[J 1. Shuffi X=XS -> X= Book XS 5. Sollusos per (app (rev (hesxs)) (rev y) = rev (rev 1 (hesxs) (rev y)) Defirev (rev 7 XS (hes rev y)) = rev (app (rev XS) (hes revy)) 22 rev lapp (revxs) (rev(rev(hierev y)))) = app (rev (herrevy)) XS Lemnaz = rev 1 (heerevy) xs= rev1 (revy) (heexs) lemaz app (rev (rev V)) (BEEXS) = app y X