ex6 a) test ét à l'est is linear. checklist (l...ln) = Shue; if n=0 nil; l,!= member Checklist (l2...ln) otherwise le replace first occureuce of Ein list with D. $lest(1,...l_{n},0) = \begin{cases} 1 & \text{if } n=0 \\ 0 & \text{wall } l_{2}...l_{n},0) \text{ if } l_{1}=0 \\ l_{1}U \text{ repl}(l_{2}...l_{m}) & \text{otherwise} \end{cases}$ d'merge truvo rorted lists ruitroui keeping
duplicates
remove_doubles(\lambda...\lambda)=\ \lambda_i; if n=1
\text{remove.doubles(\lambda...\lambda); if
\lambda_i=\lambda_2
\lambda_i\text{vienuse.doubles(\lambda...\lambda)}
\text{ofherwise}

remove. doubles (la... lm); it merge///_...lnil/...lm)= remove doubles (Ln., Lm); if / m=0 / lav menge 1/2...lan (1...lan) i if Lowerge 1/2...lan L2...lan); if l1>L1 11 U(l2...lan) L2...lan); if l= L1 c) replace each sublest of a list with it's but element rep(1,...ln) = | rep(1;ne) U rep (12...ln); if ly is list lost elem. (- ly U rep (12...ln); otherwise