Restore the LCS

Assuming that for some 12i, i we have M(i,i) = r

Observ the submatrix i-1 $\binom{r_1}{r_3}$ \binom

From the way we built M, we know that $a_i = b_i$ and we should keep traverse M from entry (i-1,j-1),
not before we keep a_{i-1} or b_{j-1} to record the LCS
else $r = r_2$ or $r = r_3$,

to r=r2 then from the way we suilt M we can conclude that we should neep traverse M from entry (i-1, i),

else we should neep traverse M from entry (i, i-1).

Frome all the above, it's easy to see how to restore the LCS

restore LCS (MEn+1] i an) 18 could use by instead a. de KELLCS (9n. 6m), i En+1, j Em+1 2. while 1 < k de if Msci, si) = M(i-1,j) then do (← i - 1 eise if M(i,j) = M(i,j-1) then do 1 < 1 − 1 /* M(i,i) ELCS */ 0150 90 i ← i ー A J ← j -1 KE K-1 L. add To Head (A [i-1]) /* could instead, add
B[i-1] 3. Print L.