TUSTGHMENT # 2 Mabiga Yousaf (1825 15 98 -027) Sbj: FMISE Algebraic Specification of Queue: Queue (Elen : [unde] hed -> Elen Sort Queue Sort collect greve, the operations defined a greve operations defined on greve are is Empty(), which evaluates whether the greve is Empty returns the item at the front of queue, deg (q) returns the greve after removing front item regla) returns the greve

after adoling flement at the end back of greve removel) setums a retriver and remove that head. > is Empty () > Bool > front of (q) > Flem > remove () -> Flem -> deg (q) -> Queue > eng (q) > Queve > is Empty (eng (q, u)) = false > front of (eng (q, u) = if fælse front of (q) > remove (eag (qu)) = if is Emptyl) then n else front of (9) > deg (erg (q, n)) = if is Empty)
then q else
eng (deg (q, n))