La. For n=1, A= (ai), L=(1), V= (ai). This does not take any computations, so |DA| = 8, 12/101, b. Assume for Aco E/Rman the algorithm computes Loo and Vos Now let A e IR not with A = (Ano an) be the result of the algorithm.
Note that DAOO = 80 Los any is computed from the solution to Looking and the error from triangle solve is bounded: | & air | = max (80, 800) Similarly, and is computed from the solution to l'in Voo = a To which is equivalent to solving lover triangular system: Voot lio= and and the is bounded: | Sanot | & max (82, 8n-1) | 1011 Qui is computed from dis= VII = QII - a Todos The error from the dot product K := a Troac is

bounded: | SK | = 8n | a Tro | | a or | so the error from

the subtraction is bounded: | Same = 8not | a Troac + Vill

So | A | \( \le \) \( \le \) | € 8n+1 (Lo. Uo) | Lough | € 8n+1 | |