Tile III losh 6 (1)  $D(r, 1+1) = \frac{4^{2}}{9^{2}-1}D(r, 1) - \frac{1}{9^{2}-1}D(r-1, 1)$ = 41-1 (1+ 2 A(h, n) (4) - 57-1 (1+ 2 A(h, n) (201) ) = 45-1 2+ 50-1 2 A(4,1) ( 1 ) 24 - 1 & A(4,1) ( 1 ) 24 - 1 & A(4,1) ( 1 ) 24 = 2 + 43 = A(4, 1) ( 21) 24 - 41 = A(4, 1) 224 ( 27) = 2 + 41 = A(4, 1) ( 1) 24 - 1 = A(4, n) 44 ( 1) 24 = L+ 2 (42) A(4,2) (22) - 42 A(4,2) (27) 24)  $= L + \underbrace{\underbrace{\underbrace{\underbrace{2}}_{n=1}^{2}}_{n=1} \left( A(4, m) \left( \frac{4}{2^{n}} \right)^{2^{n}} \right) \left( \frac{4^{n} - 4^{n}}{4^{n} - 1} \right)}_{q^{n} - 1}$ As we see, lowest-order error tern (which is also bissest when hell) venishes. Non we are left with something that looks the D(n, n) with uith something some coefficient 42-42 Non leading error term 15 proportional to balleti) instead of both which needs error is O(42) sallery