Sine a simple Description of the language generated by @ the grammar with productions STAA A -> bs SA Sit: S => aA => abs => abas => ababs po al. ab. ab.S P3 (06) "\$ € 46) Therefore L(G) = { (Ab) " = n = 0} Let Z= { a, b} For Sind 67 L={ansm:n>0,m>n引 Generate an equal number of ais & b's then one of note b's as needed. S -> AB A -> a A b) n B-> 68/6 L={ an 5 n-3 : n > 3 } find G (0 3) SA put n=m+3 h = { ~ m+3 . m : m ≥ o} So s > anaA A A a Abola L= f w= |w| mod 3 = of find G when E= faj ": IWI mood 3 =0 shows w is mulhple of 3 ie L = { A, and, and and, and many, --- } : S -> waas n

0.5: L= fw: 1w/mod 3 >0} when to the \$ = 10,00 find G Sof 6 : /m/2204 3>0 " |w| mod 3 = 1 -> 0 1w1 mod 3 = 2 -> @ First is covered by S, -> and S, a Second is convert by. So - ana So aa The two can be combined into a single grammar by. S > S1/S2 L= {w: naw = nolw) w equisy* } w Ras emd No of a & b using the concept of balanced prosenthesis · S -> S.S S-> aSb S> bsa (change) & differ from bolinary L=d w: malus) = nolw)+1) tim 5 S -> a S, (2) string strest with a) S -> 5,5 (2) string stars with b) S, > 5,5, SI > astel & SI ar I V

9070 Find the grammar that generates L = { an bm: (n+m) is even } Sit S -> AeBe AoBo Ae -> aaAe n .Be -> bb Be 1 Ao -> aAe Bo 7 bBe Q70 Find Grammar fit L= { w: |w|mod3 = 0} w. Efa, is S -> N a A | 6B A -> aB | bB B -> a S | 6 S

Construct a general for polindrome strongs vu Ezda, 2, c} 5-> 250 8-3656 s-> cSc S-> WILICIA · Find the context - free granter that generales The temperate in the state of t Le faibier liejtreg. SH S > a S c | A | A | X (a) b) CF a | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A | S c | A constinue a CFG for my following language sur L= { an bn : 2213 5-3 a a S b | a a b Q L(G), for + fa, 53: where come No gots 81 . 5 -> aB | 5A A + 25/6AA/2 B > 55 188 | 5