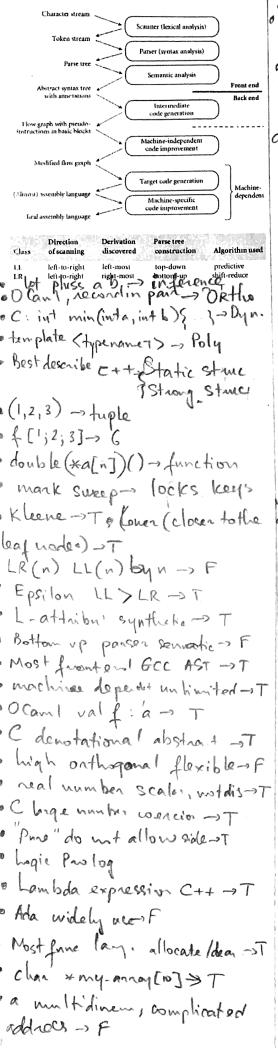
Explicittype conversion: (ivit) ix Structural equi implies that each Smart pointers to reference counts element of the values being compared if they are not the same object Implicit type convension char y= a · int my ang [10][10] > 100 integers "convert y to a value of 97 · multidinensional anayallo cated instances in memory int x = 10; 117273 F4E 5T 6F 778 F9F * Name > Structural: float 7= x+1.0; 119c is implicitly - Name type equivalence is simila coment to float 1 a 2 c 3 c 4 b 5 a 6 bf ta 8 c to physical value equivalence : for two (3.14159+5) is capability type · Stage reads stroom of tokens and variables to have equivalence types (int) 95,7 : type conversion produces a parse tree ? [Parcez] under name type equivalence, the · Declaration before uce? Sen mantie in Camel unification ... inference declar ations of those variables · ambiguous grammar - None in C, declare on among w stanctelem must reference the same type · if a grammar can be implemented reassi - Structural type equivalence whene descent -sLL] C++, use of virtual func > Dyn, typ is similar to structural value aquivalence: two variables are · contains right-recursive profusel. Best describe OCaml Dyn Structured ·C++ daugling ele -> closest unmodels considered to have equivalent Brongly name of equi ype's if each element of the types o back and " Machine, deplinder code 11,2,31] > an among w 3 intele 1,2,3 there declaration are equivalent, gen/cook improvestock when compared recurrively. In OCaml, ly is the value (content) accessed by the full variable y · parcia CFA - PDA · Epsilon D · modern compilers > ssort Ada Coloine (Fahrenheit: Theuse of derived types can Option types programmer to specify ·TEFIRST(x)-1 catch certain common errors FORTRAN - F a value valid/invalid ->(T) such as mixing values of differ physical units plas · C++ denotational and abstraction-· L-Attribute →(7) · Scanner "peak" > (T) based -XT · Programing language lighty ontho .. less ontho -> (F) int + int = int ; int+donble=doble functional & logic language real people · Real number type, scalar type (· reconsive descent semantic attributes (F = operator to assign to references · Large number coencionss · Bottom up parseng push "shift"deferences to get out the contents between decreace ease of use of Lange reads a streament chambera may use a pragma, drawless and understandability (1) may use a pragma, mando · functional language make · Stage determines the meaning of a -> because the rasulting program, errors and declarent befreuse Gramma am bigous type gramma Toma extensive use of side of feets XF packed record structure layou · functional language manipulated in memory may result in · Gramman recursive des con the MESSE Same mechanismmanipulate debt · If a grammar left-recursive I FLAIR · Module 2- Ada - en marker " SLR Some fields being non-alique · lambda calculus C++ Java (T) to word boundaries, access · Most functional langue do MOT Fronten - Parsen High level intermediate form Abstract to those fields may require Support (F) multi-instruction sequences, · On modern malmer, assen by lay >compiler · Gorbage collection essential · BNF enables Algol-60-50 thus reducing performance. feature >(T) · Operator precedence higher "> (F Stage traverous AST, but high level code generation Scanner peck (T) Why does OGam! provide separate · Epsilon LRYLL (F) To prevent potential errors · Top down A->a TEFIAT (X)-XI) · Stage read! Stream of token >> Parcier - attributed synthesized, inherited > E arising from coercions (implicit reconsive desent incorp semantic norther Bottom up parsen -> LR, LALR, SLR type conversions) right reconsive LL, LR, LALR, SLE · frontend GCC RTL (F) To help with type inference · ambigon -> LR, LALR, SLR machine depentedat number of reg (Back and "> (a) machine dep Briefly explain physical > (structure which is NOT regular expression generate 3.14+5 - compa law level : AssemtRTI tokens of a program, language heconsion) - Physical equality impliese 9 that the dangling else c++ = closest DO Loop in FORTRAN Variable naced the values being compared on the same object intance in memory. reinterprete-rout (int) (05.7) · LL top-down of (Spaces.



Sount) Standardeq · AB,C,D became bx Subreall Code generation involves using a model compiler to generate a low-level representation of the model using existing programming language and platform · Model internetation relies on the existence of a vintual machine able to directly read and run the model. S, occupies N toN+2. (M: orthess, even) N+2 to N+3 N+4 to N+6 N+6 tON++ N+8 to N+16 N+16 to N+20 So we need at least 20 bytes for this stantone. It is unt dividable by 8 => chrose24 Hence: 24 × 10 = 240 bytes for the array

Code generation includes utilizing a mode t confiler to produce a low level act of model utilizing the programming language with its plotform whereas made! indeppretation depends on the precence of a virtual machine that can read directly. In case of interpretation, the actua source code is often generally changed to few intermediate codes and further process with an interpreter which translates the machine Medable code intopartial machine code.