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Consider the grammar:
S → ACB/CbB/Ba

 $A \rightarrow da/BC$

 $B \rightarrow g/\in$

 $C \rightarrow h/\in$

Calculate FIRST and FOLLOW.

7

 a) What are the difficulties faced by memory allocation for variable length requirements? Under what circumstances does external fragmentation happen.

 Explain the concept of type checking and type conversion with an example.

6. a) Translate the following code into a three address code:

a = 10;

b = 6;

if (a>b+5)

b = 5;

0=5,

b) What is DAG? Construct DAG for the basic block:

D := B*C

E:=A+B

 $\mathbf{B} := \mathbf{B} * \mathbf{C}$

A:=E-D

7

 a) Analyse the possible causes of a dead code. Explain with an example how the compiler can catch the presence of a dead code.

 Explain the common subexpression elimination copy propagation and transformation for moving loop invariant computations in detail.

Write short notes on:

rt notes on: 14

a) Peephole optimization

b) Symbol table

Global Data flow analysis

d) Back patching.

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