Compiler Design Continuous Assessment 2

Please take the CA2

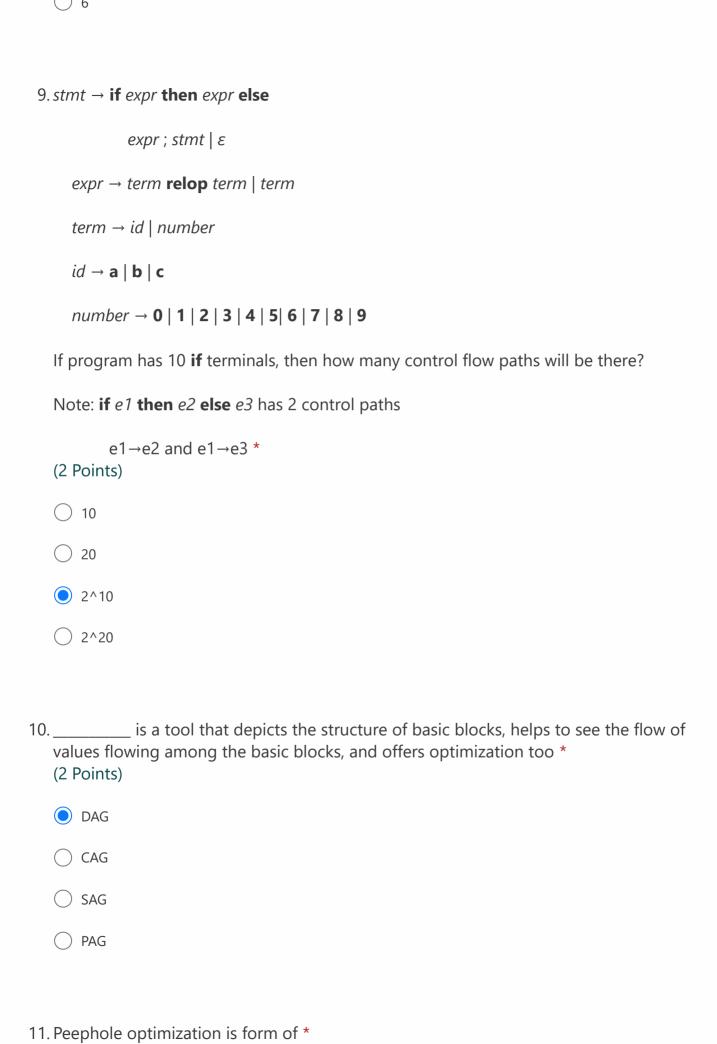
7CSE8

Hi, SAI. When you submit this form, the owner will see your name and email address.
* Required
1. Student Name *
Sai Ram. K
2. ID Number *
20181CSE0621
3. Section *
○ 7CSE1
○ 7CSE2
○ 7CSE3
○ 7CSE4
○ 7CSE5
○ 7CSE6
○ 7CSE7

O 7CSE9
● 7CSE10
7CSE11
○ 7CSE12
7CSE13
4. Let a denote an integer array of size 5 and let c and i be integers. Assuming that the width of an integer is 2. Select the appropriate three address code for the expression c+a[i] * (2 Points)
✓ t1=i*2, t2=a+t1, t3=c+t2
t1=i*4, t2=a+t1, t3=c+t2
t1=i*8, t2=a+t1, t3=c+t2
t1=i*12, t2=a+t1, t3=c+t2
5. S->CD S.m=f(C.m,D.m) * (2 Points)
✓ Synthesized attribute
Inherited attribute
both synthesized and inherited attribute
none of the above
6. Which of the following statement is false with respect to intemediate code generation * (2 Points)
Using quadruple notation, the location for each temporary varible can be accessed immediately via the symbol table
The benefit of quadruples appears in optimising the compiler
indirect triples and quadruples require about the same amount of space and are equally efficient in reordering of code

7. Consider the following code fragment:
if(a <b)< th=""></b)<>
z=x*2;
else
y=10;
g=x*2;
Which of following optimization techniques <i>can't</i> be applied on the given code: * (2 Points)
Code Motion
Copy Propagation
Strength Reduction
All of the above
3. Consider the following string:
a#b\$c\$d#e#f
· \$ has higher precedence than #
· \$ is left-associative
is right-associative
What will be the depth of the Syntax Tree constructed for the above string? Note: Root node is at depth 0 * (2 Points)
○ 3
6 5

Indirect triples and quadruples require different amount of space and are not efficient in reordering of code



(2 Points)

	Coop optimization
	Local optimization
	Constant folding
	O Data flow analysis
12.	Dead code plays no role in any program operation and therefore it can simply be eliminated. *
	(2 Points)
	TRUE
	○ FALSE
	Can be true or false
	Can not say
13.	Syntax Directed Translation is * (2 Points)
	○ Grammar
	Semantics rules
	a & b
	one of the above
	Submit

This content is created by the owner of the form. The data you submit will be sent to the form owner. Microsoft is not responsible for the privacy or security practices of its customers, including those of this form owner. Never give out your password.

Powered by Microsoft Forms | Privacy and cookies | Terms of use