question @471 31 views

Will the solution for the sample finals be published?

logistics exam

Updated 3 days ago by Anonymous Gear

the students' answer, *where students collectively construct a single answer*

Click to start off the wiki answer

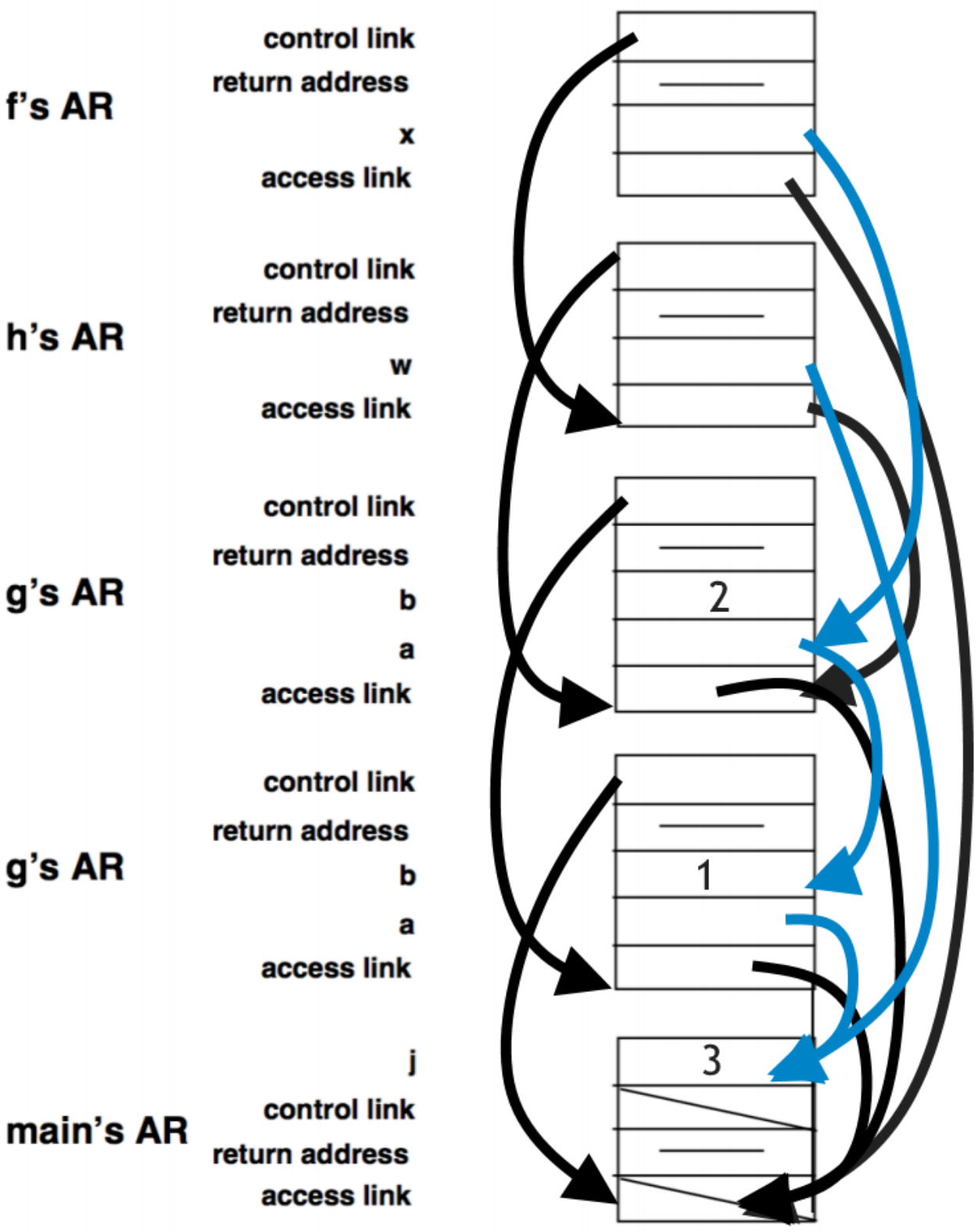
the instructors' answer, *where instructors collectively construct a single answer*

I uploaded sample 1 answers here are the ones for sample 2

B1
1: syntax error; parser
2: undeclared identifier; name analyzer
3: no error
4: multiply declared identifier; name analyzer
5: syntax error; parser
6: non-bool expression used as if condition; type checker
7: no error
8: dot-access of a non-struct type; name analyzer
9: undeclared identifier; name analyzer
10: function call with wrong number of arguments; type checker

B2 (instructor-approved):
var1: z
var2: b
actual1: x
actual2: x + y

B3 (instructor-approved):



B5a:

```
global y=1, z=1;
x=0, i=0;
while(i<3)
    i++
    f()
    x = y + z
```

```
f(){
  y++
}
```

run code snippet

The call to f() causes y to change. Moving the expression y+z out of the loop will cause the program to terminate with x=2 instead of x=5.

B5b:
Yes, it is safe if they are in the same basic block. Because $sp never changes, we know that the second sw instruction effectively does nothing, as it is always executed immediately after the first sw instruction.

No, it is not safe if they are different basic blocks. There is a chance $sp is very different between the first sw instruction and the second sw instruction. Therefore, we keep them both.

Updated 3 days ago by Loris D'Antoni

followup discussions *for lingering questions and comments*

◉ Resolved ○ Unresolved

Liam Hupfer 2 days ago
Did you post the link to the sample 1 solutions you uploaded on the course page? We can't seem to find them.

helpful! | 0

Loris D'Antoni 1 day ago They are linked to the course webpage http://pages.cs.wisc.edu/~loris/cs536/old_exams/sampleFinalPost.answers.html
good comment | 2