University of Oregon № CIS № CIS 425 № final2010

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1 ML - 14 points

What do the following ML expressions evaluate to:

```
let fun f x = x+x
in f 7
end
```

```
let fun f x = x+x
    val x = 3
in f 7
end
```

```
let val x = 3
   fun f x = x+x
in f 7
end
```

```
let val x = 3
   fun f y = x+y
in f 7
end
```

```
let val x = 3
    fun f y = x+y
in let val x = 5
   in f 7
   end
end
```

```
let val g = let val x = 3
                fun f y = x+y
            in f
            end
in let val x = 5
   in g 7
   end
end
```

```
let val x = 3
    fun f y = x+y
in let val x = 4
       fun g h = h (h 7)
   in g f
   end
end
```

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2 Parameter Passing (9 points)

In the presence of side-effects, the choice of parameter-passing technique can have non-trivial consequences. To see this, consider the following ML expression:

```
val y = ref 1;
fun f x = (!y) + (x + x);
(f (y := (!y)+1; !y)) + (!y);
```

For each of the following parameter passing conventions, indicate the final value computed by this program. (You may assume that + is leftassociative.)

1. [3] call-by-value

2. [3] call-by-name

```
val it =
```

3. [3] call-by-need

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CPS - tail recursion - 10 points

Convert the function preorder to CPS. Do not convert the functions:: (cons)

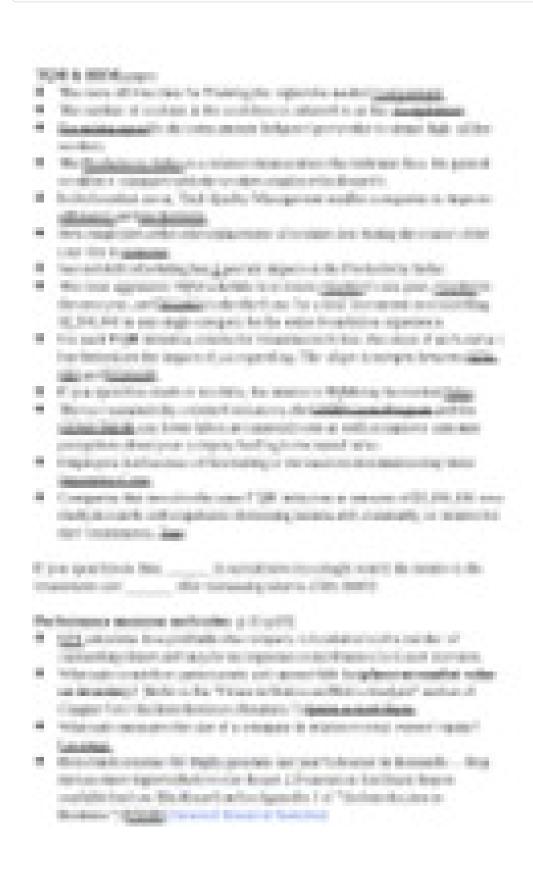
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Control flow, Evaluation strategy, val y, val G Fall '08 Staff

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