

COMP302: Programming Languages and Paradigms

Assignment Project Exam Help

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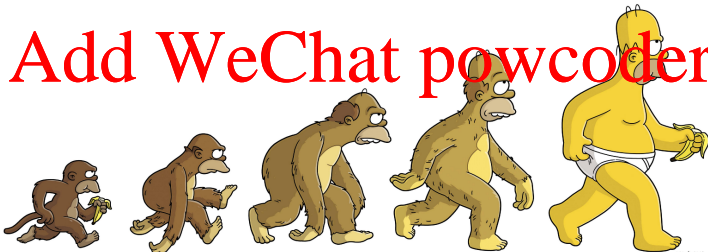
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School of Computer Science
McGill University

Week 6-3, Fall 2017

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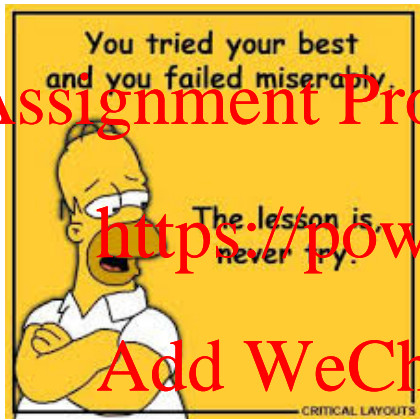
MACHINE

ASSEMBLY

PROCEDURAL

OBJECT ORIENTED

FUNCTIONAL

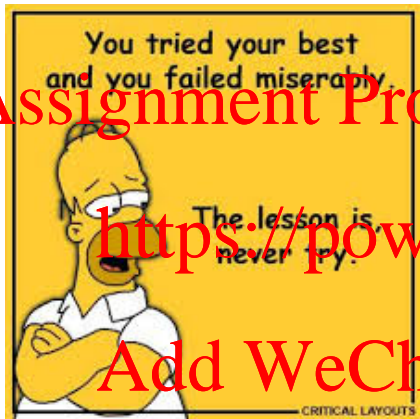


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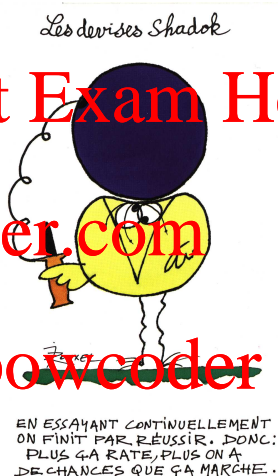
Functional Tidbit: The Midterm – The Aftermath!



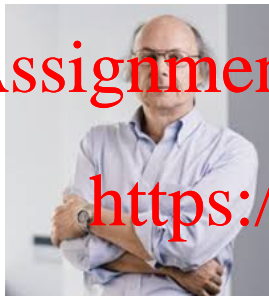
"Ever tried. Ever failed. No matter.
Try Again. Fail again. Fail better."

Samuel Beckett

Functional Tidbit: The Midterm – The Aftermath!



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"Clearly, I reject the view that there is one way that is right for everyone and for every problem."

— Bjarne Stroustrup

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– Exceptions –

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Primary benefits:

- Force you to consider the exceptional case
- Allows you to segregate the special case from other cases in the code (avoids clutter!)
- **Diverting control flow!**

Expression 3 / 0

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Expression 3 / 0

Type int
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Expression 3 / 0

Type int
Value x

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Expression 3 / 0

Type int

Value x

Effect raises run-time exception Division_by_zero

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Warm-Up: Type, Values, and Effect

Expression 3 / 0

Type int

Value x

Effect raises run-time exception Division_by_zero

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Expression

```
1 let head_of_empty_list =  
2   let head (l::t) = x in  
3   head l
```

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Warm-Up: Type, Values, and Effect

Expression 3 / 0

Type int

Value x

Effect raises run-time exception Division_by_zero

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Expression

```
1 let head_of_empty_list =  
2   let head (l::t) = x in  
3   head l
```

Type 'a

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Warm-Up: Type, Values, and Effect

Expression 3 / 0

Type `int`

Value `X`

Effect raises run-time exception `Division_by_zero`

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Expression

```
1 let head_of_empty_list =  
2   let head (l::t) = x in  
3   head l
```

Type `'a`

Value `X`

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Warm-Up: Type, Values, and Effect

Expression 3 / 0

Type `int`

Value `X`

Effect raises run-time exception `Division_by_zero`

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Expression

```
1 let head_of_empty_list =  
2   let head (l::t) = x in  
3   head l
```

Type `'a`

Value `X`

Effect raises run-time exception `Match_failure`

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– Demo –
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