

Assignment Project Exam Help
COMP0020 Functional Programming
Lecture 16
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Introduction to Implementation
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Contents

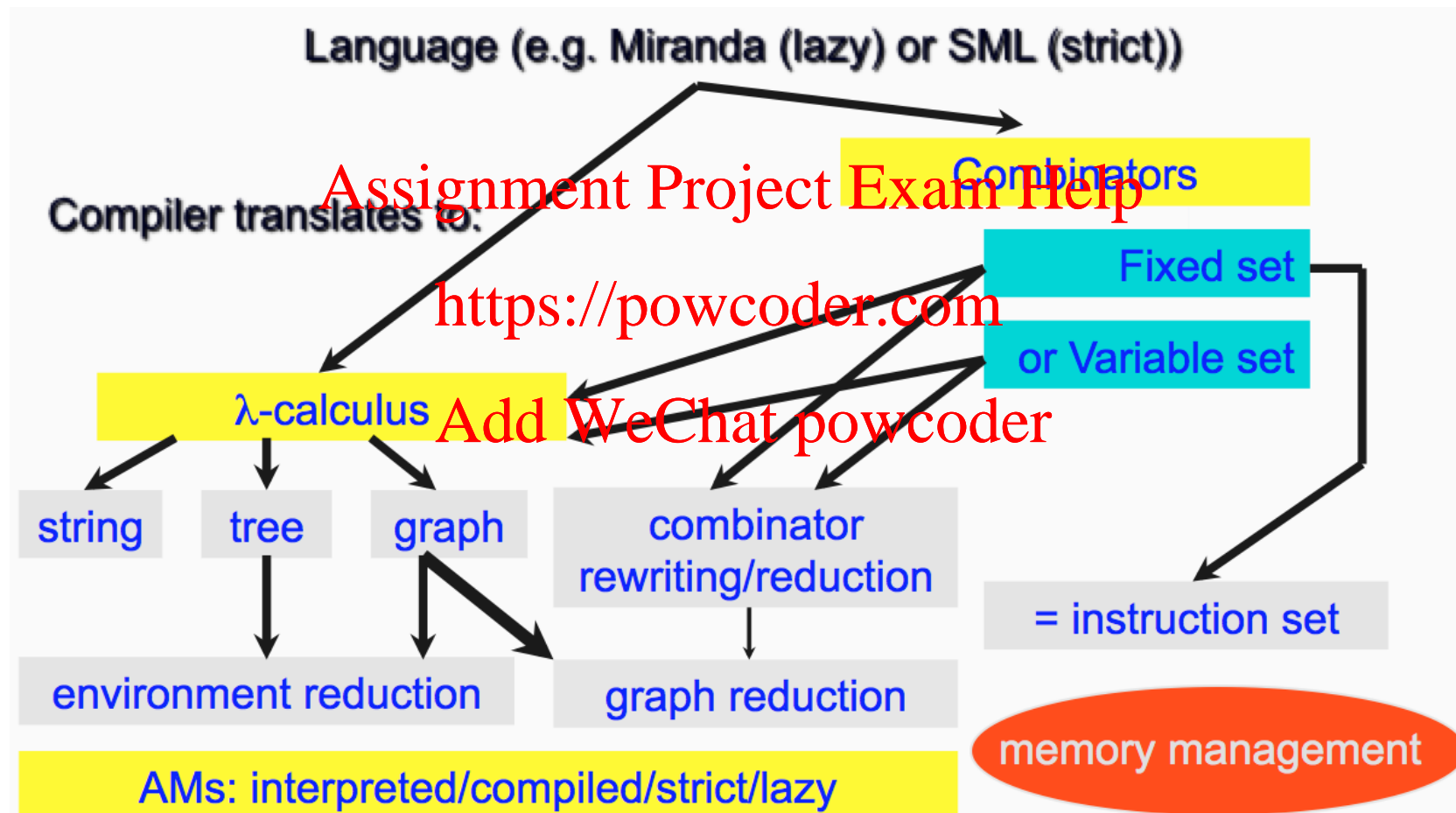
- What is “implementation”?
- Lambda calculus versus combinators
- Graph Reduction
 - ▶ “Abstract machines”
- Automatic Memory Management
 - ▶ Memory allocation
 - ▶ Garbage Collection
- Parallel Graph Reduction

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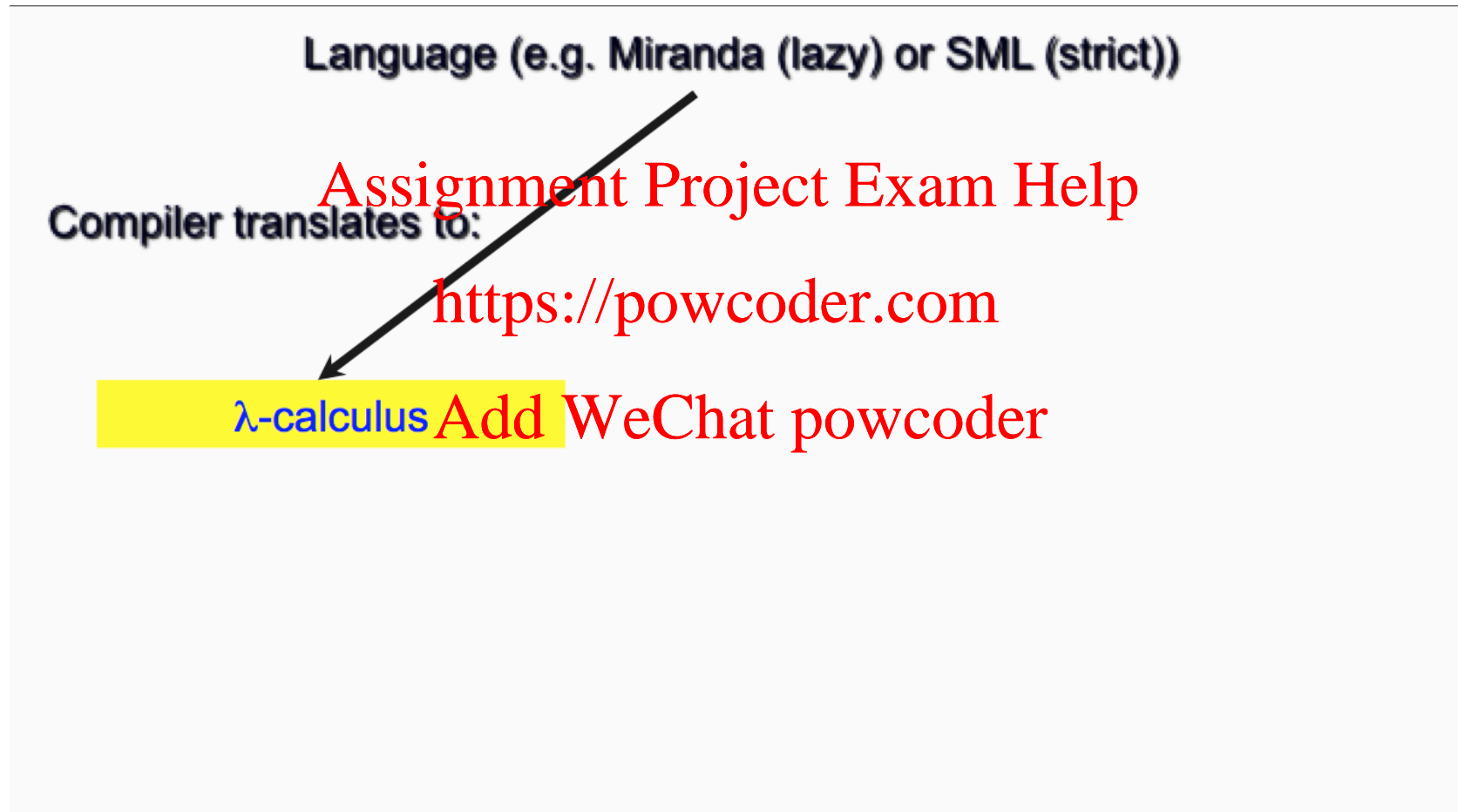
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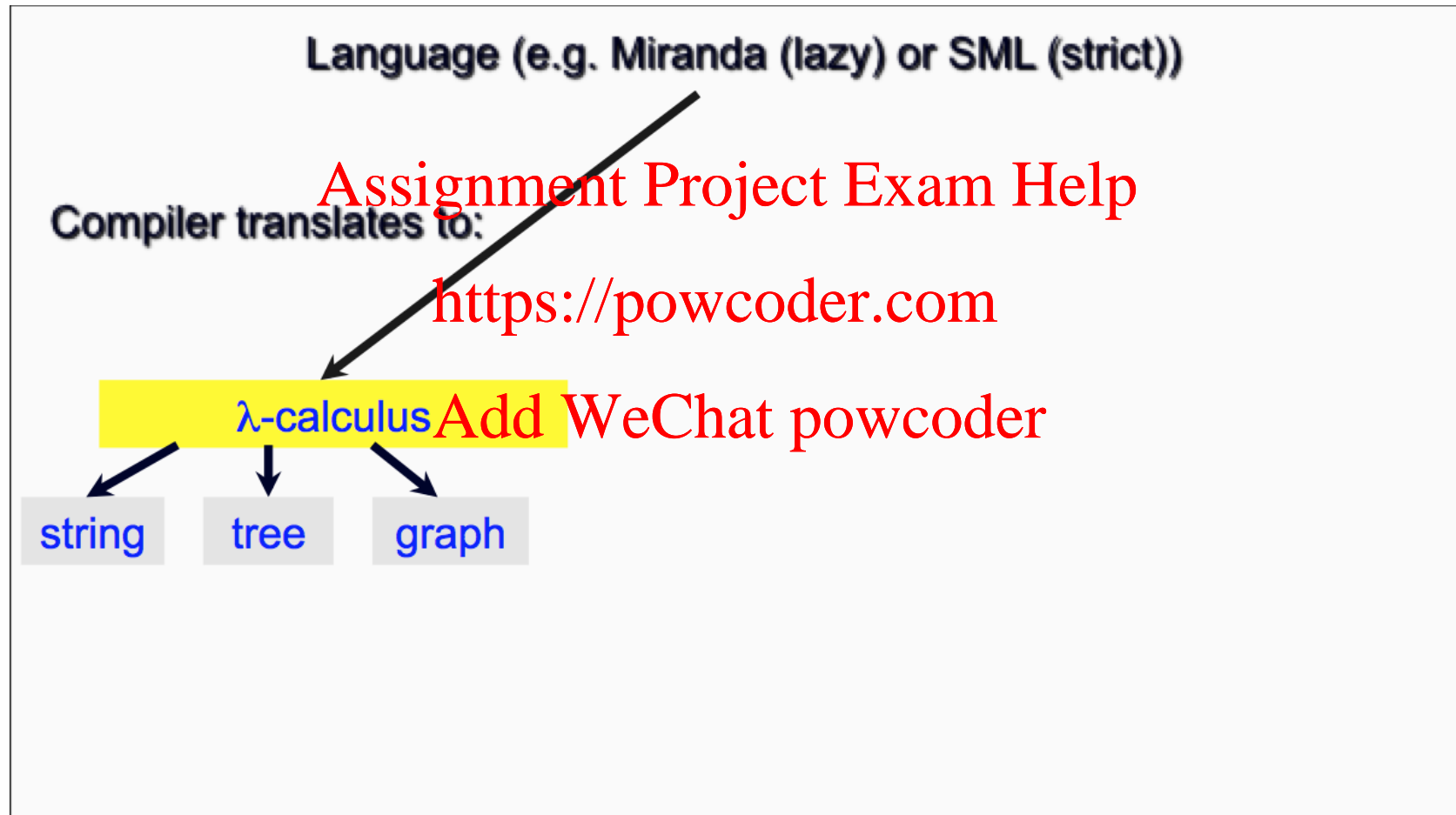
Language implementation



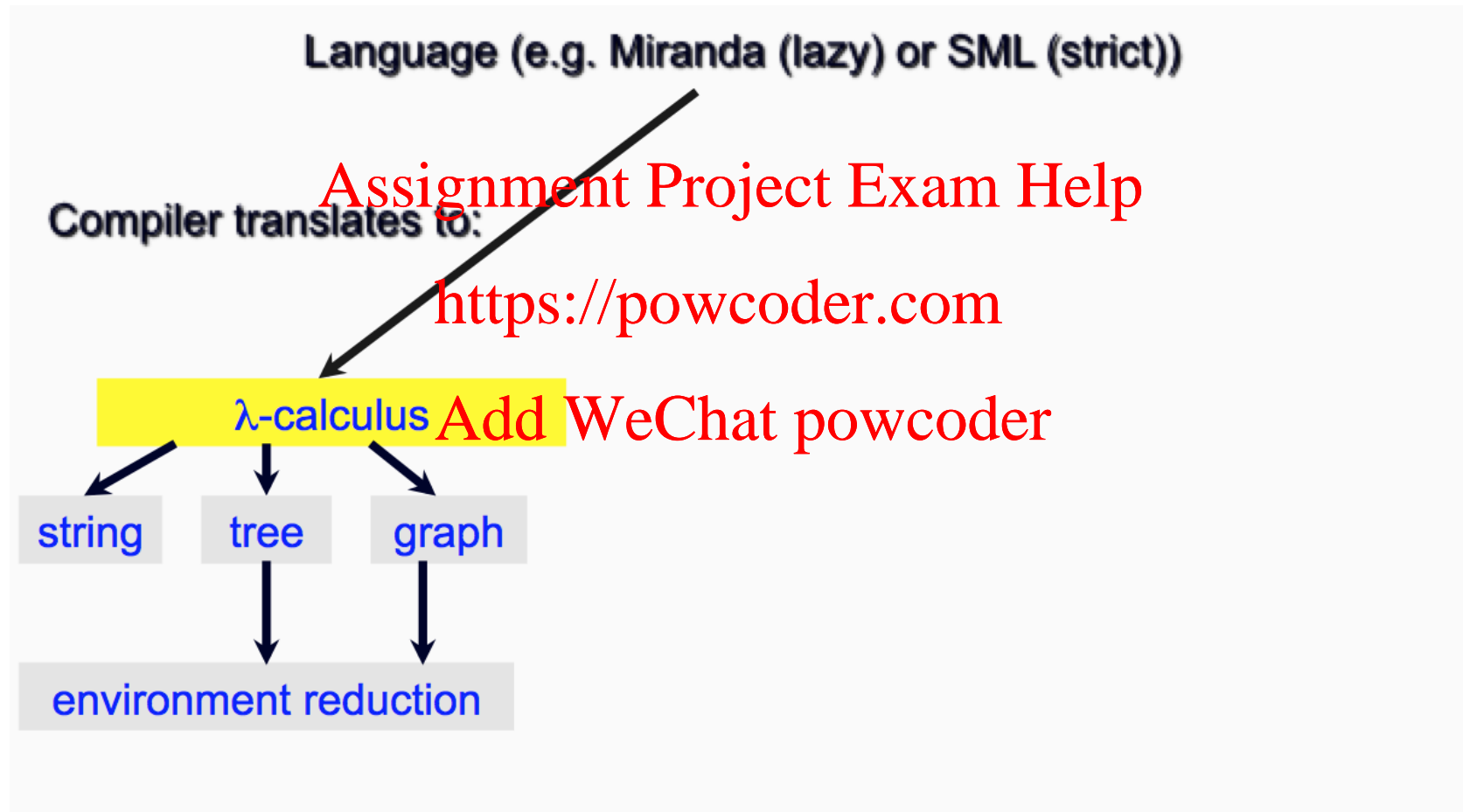
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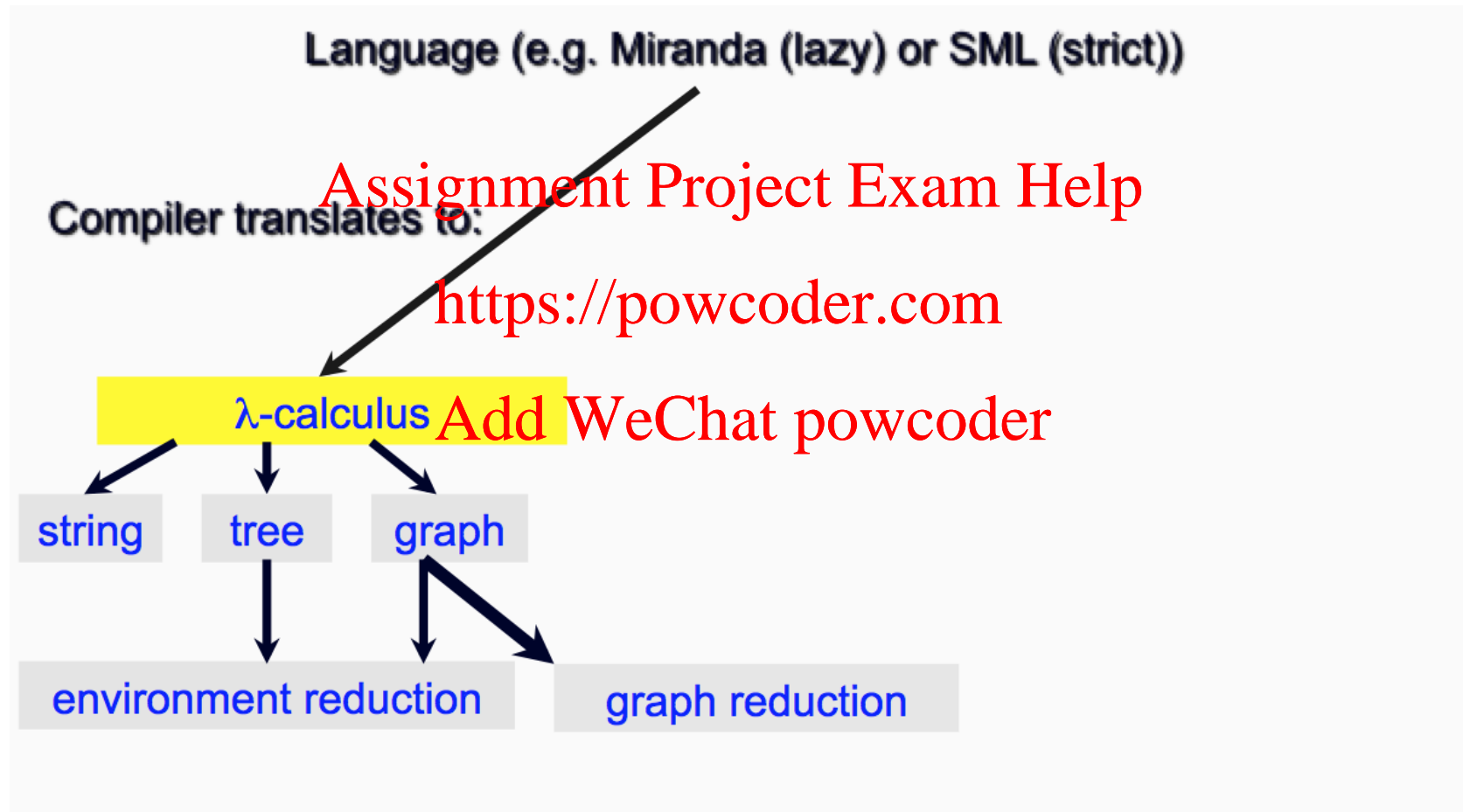
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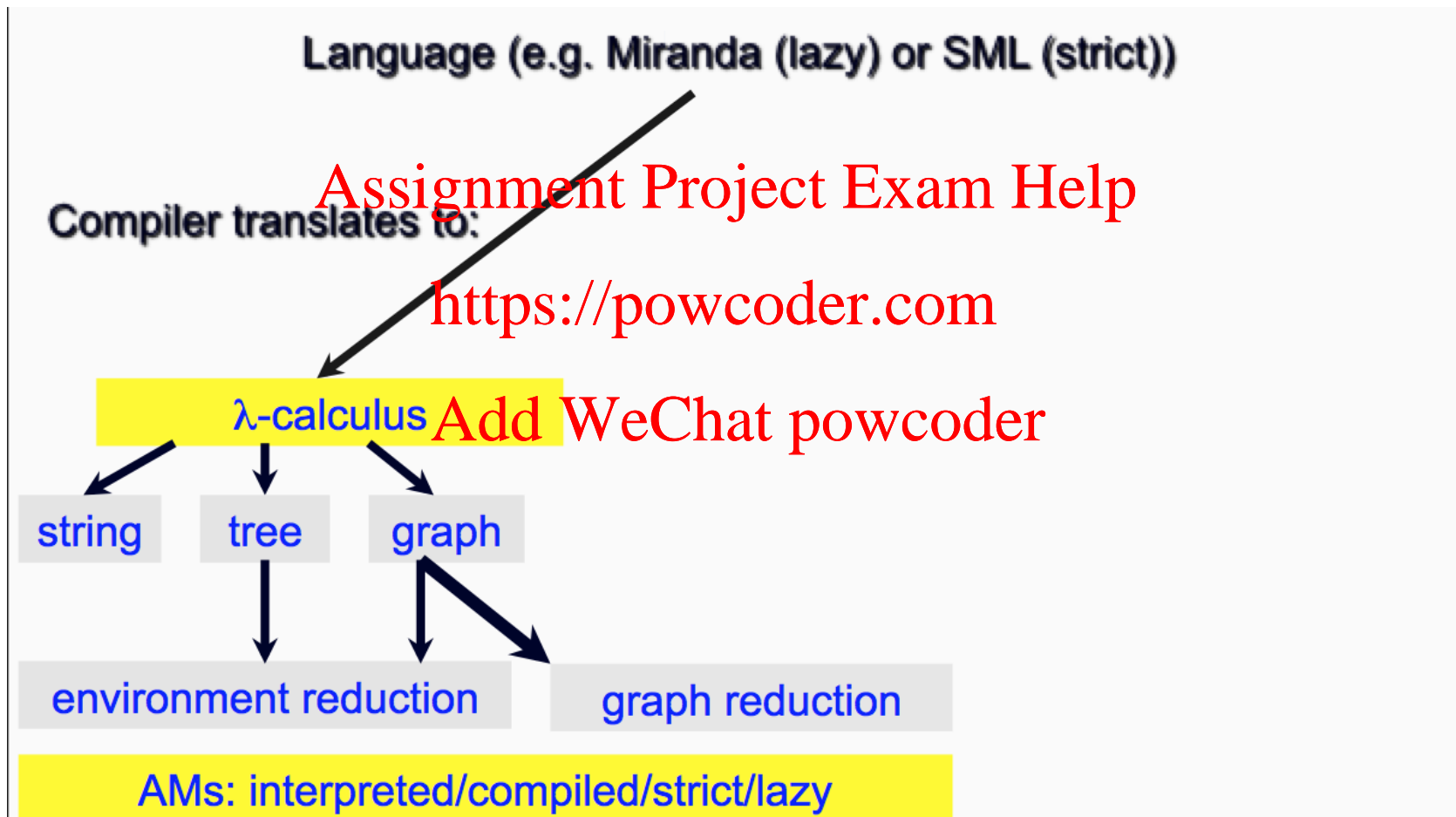
Language implementation



Language implementation



Language implementation

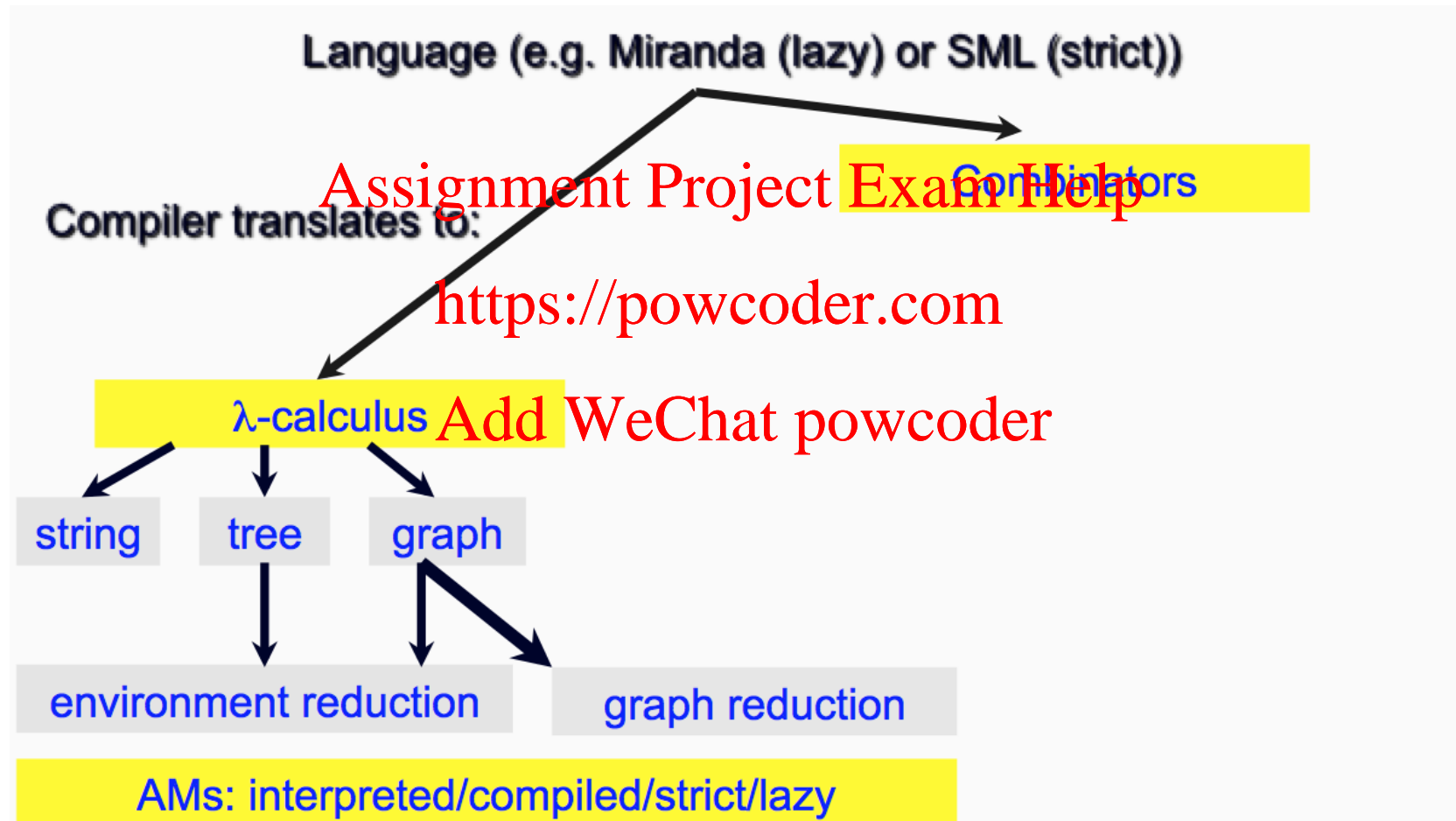


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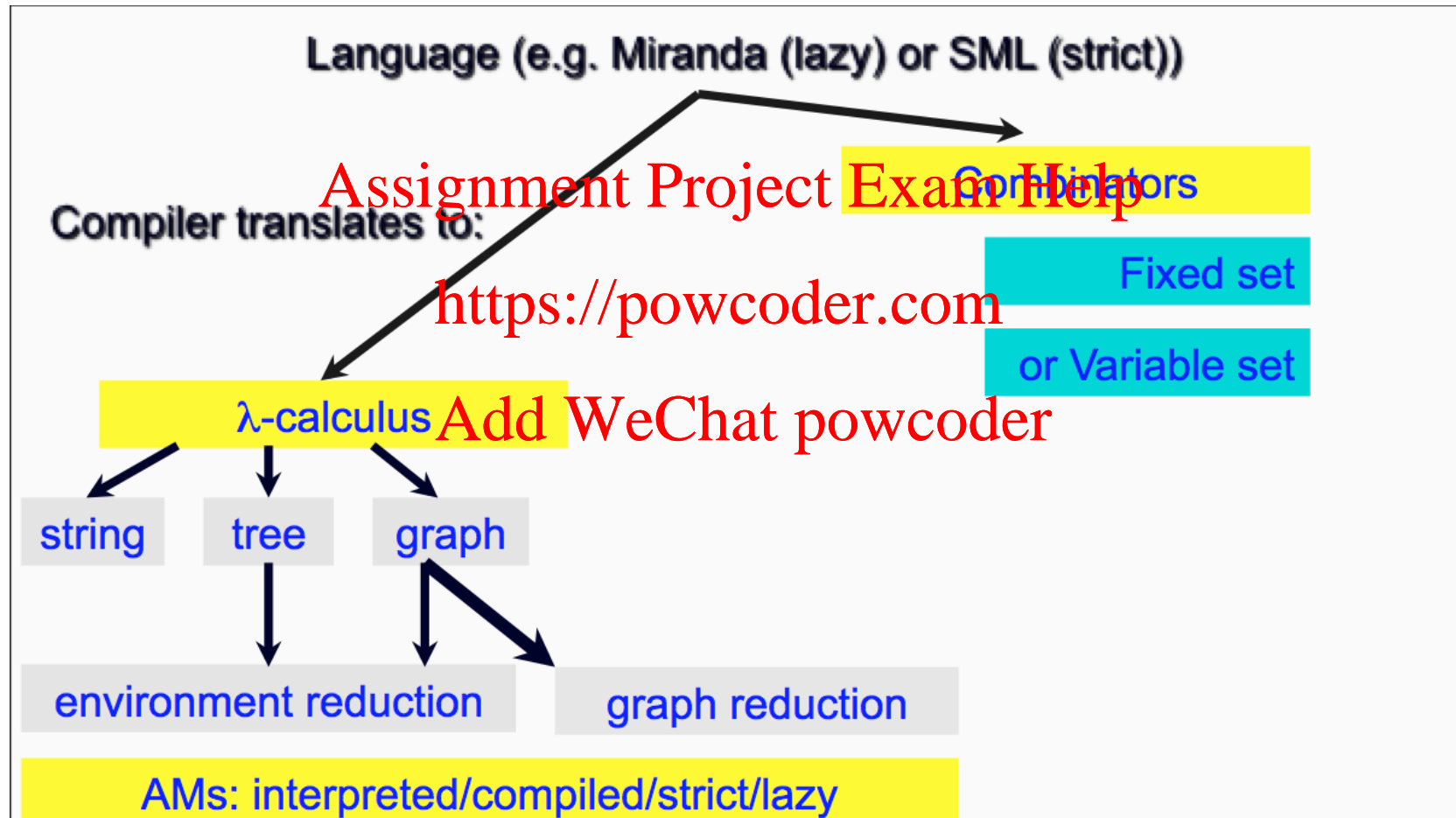


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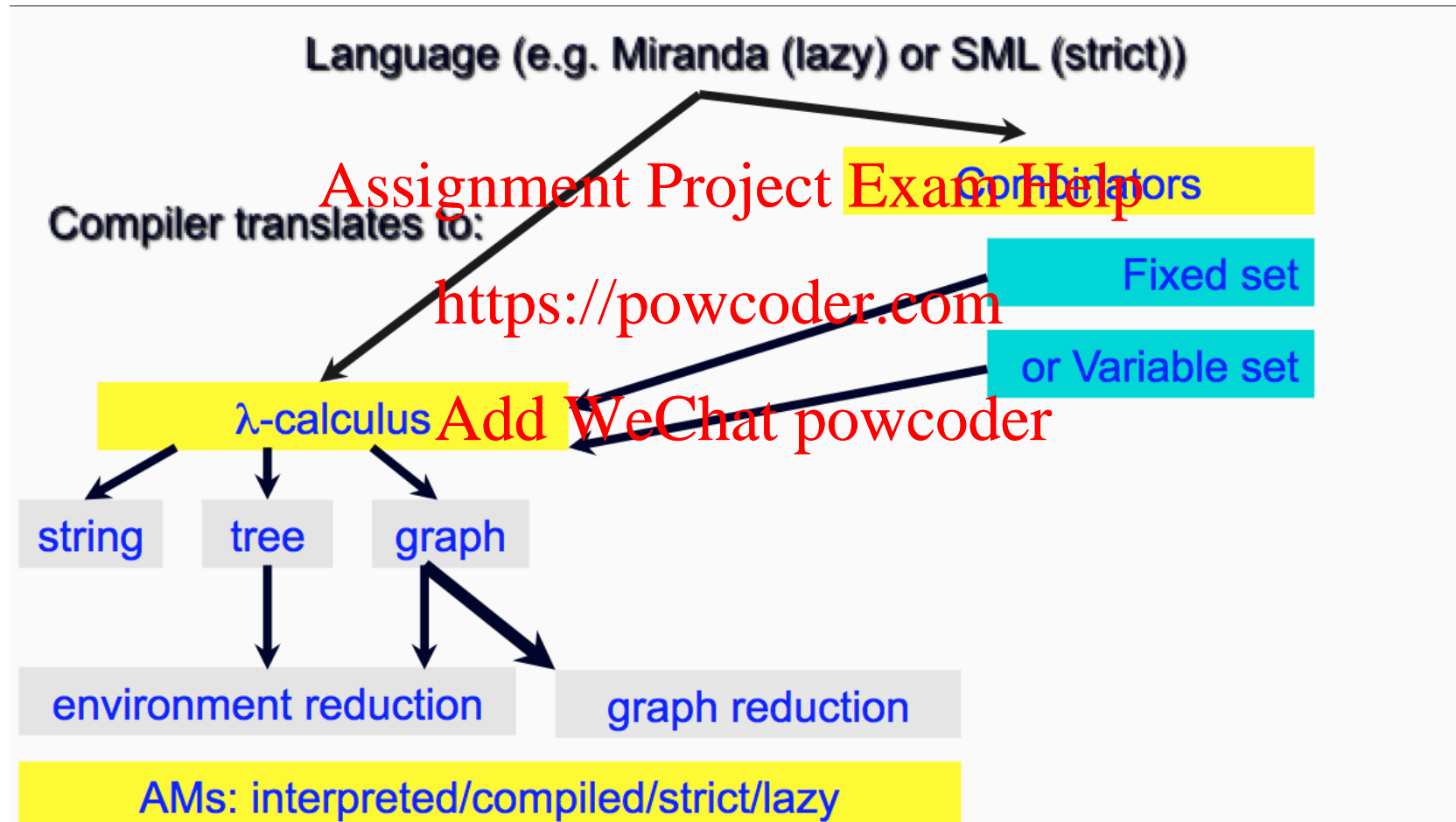
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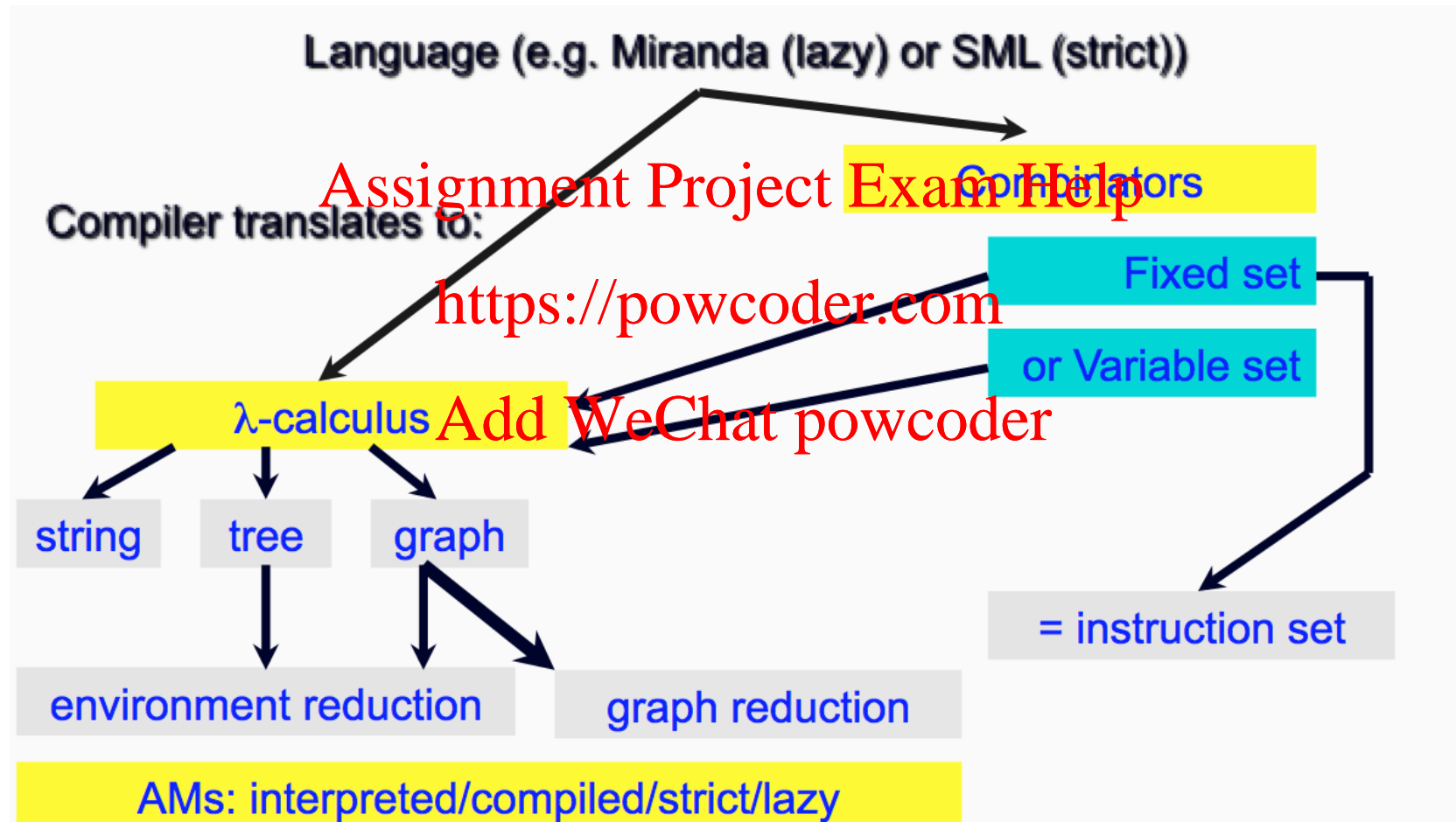
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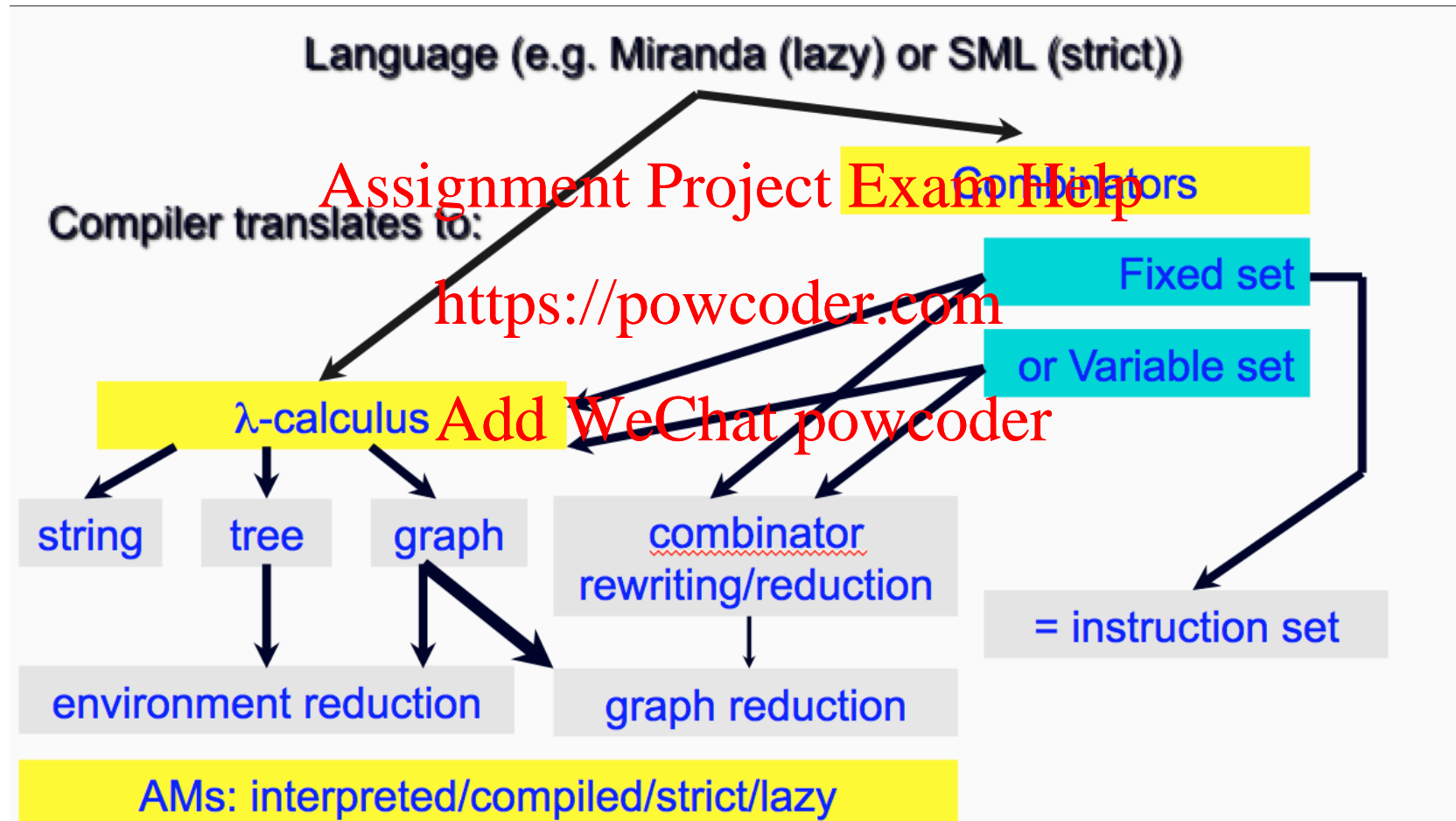
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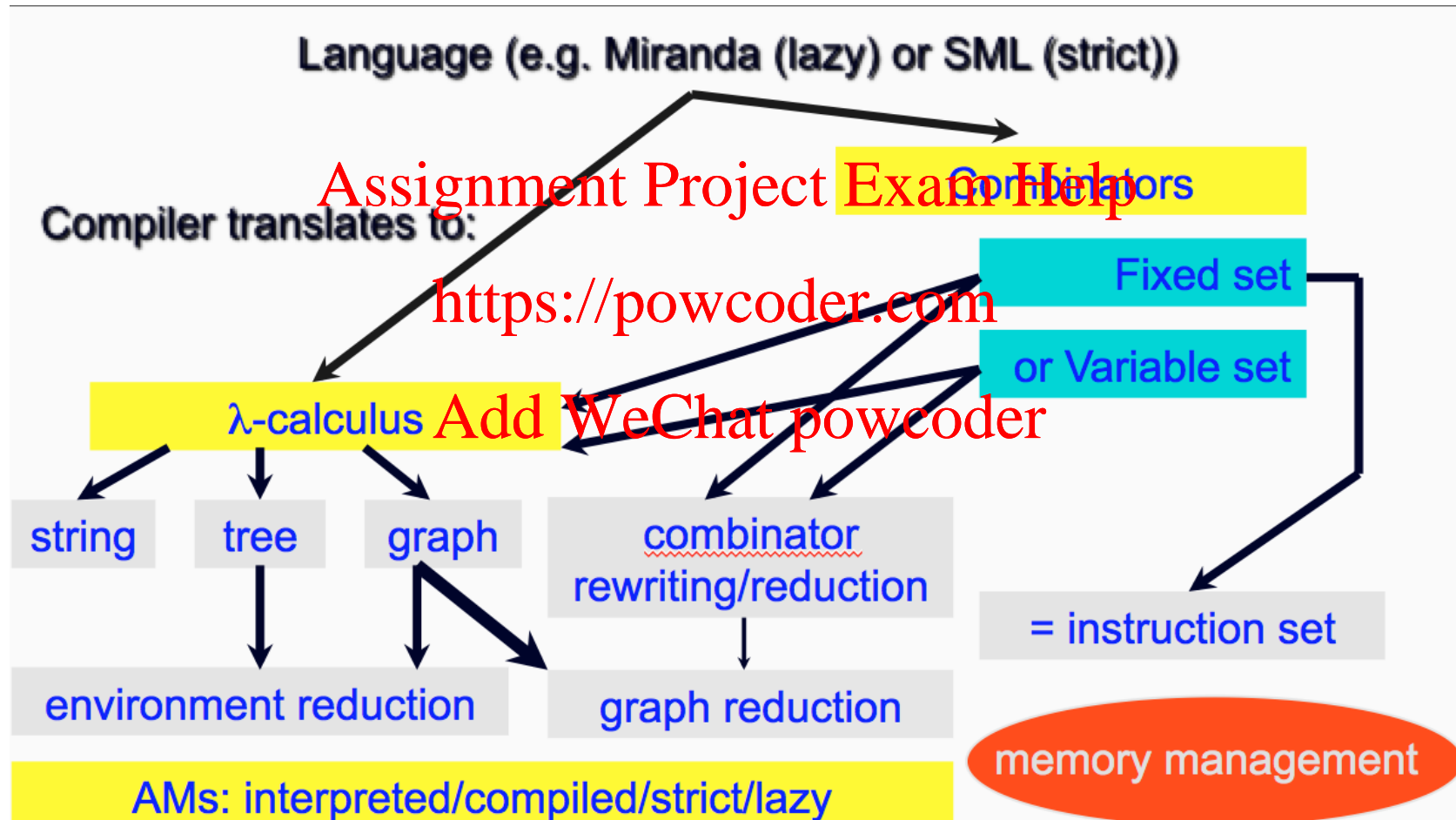
Language implementation



Language implementation



Language implementation



Memory management

- Recycling / reusing memory
 - ▶ Limited resources
 - ▶ Programmer does not control placement of data in memory
- Issues :
 - ▶ Memory Allocation
 - ▶ Garbage Identification
 - ▶ Garbage Collection
 - ▶ Fragmentation

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Summary

- What is “implementation”?
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