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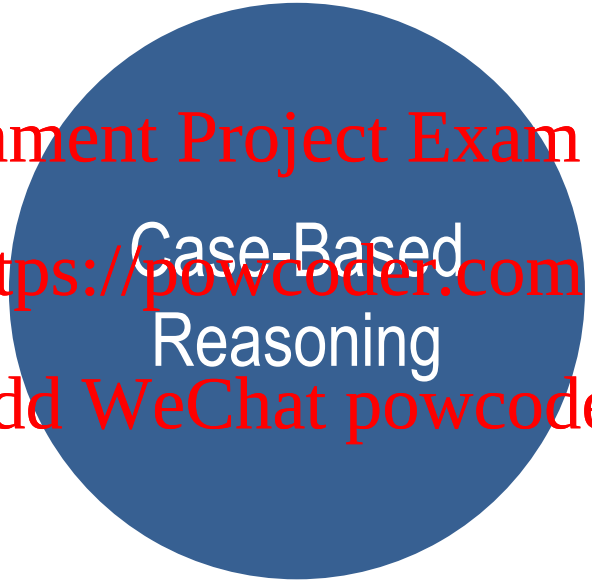
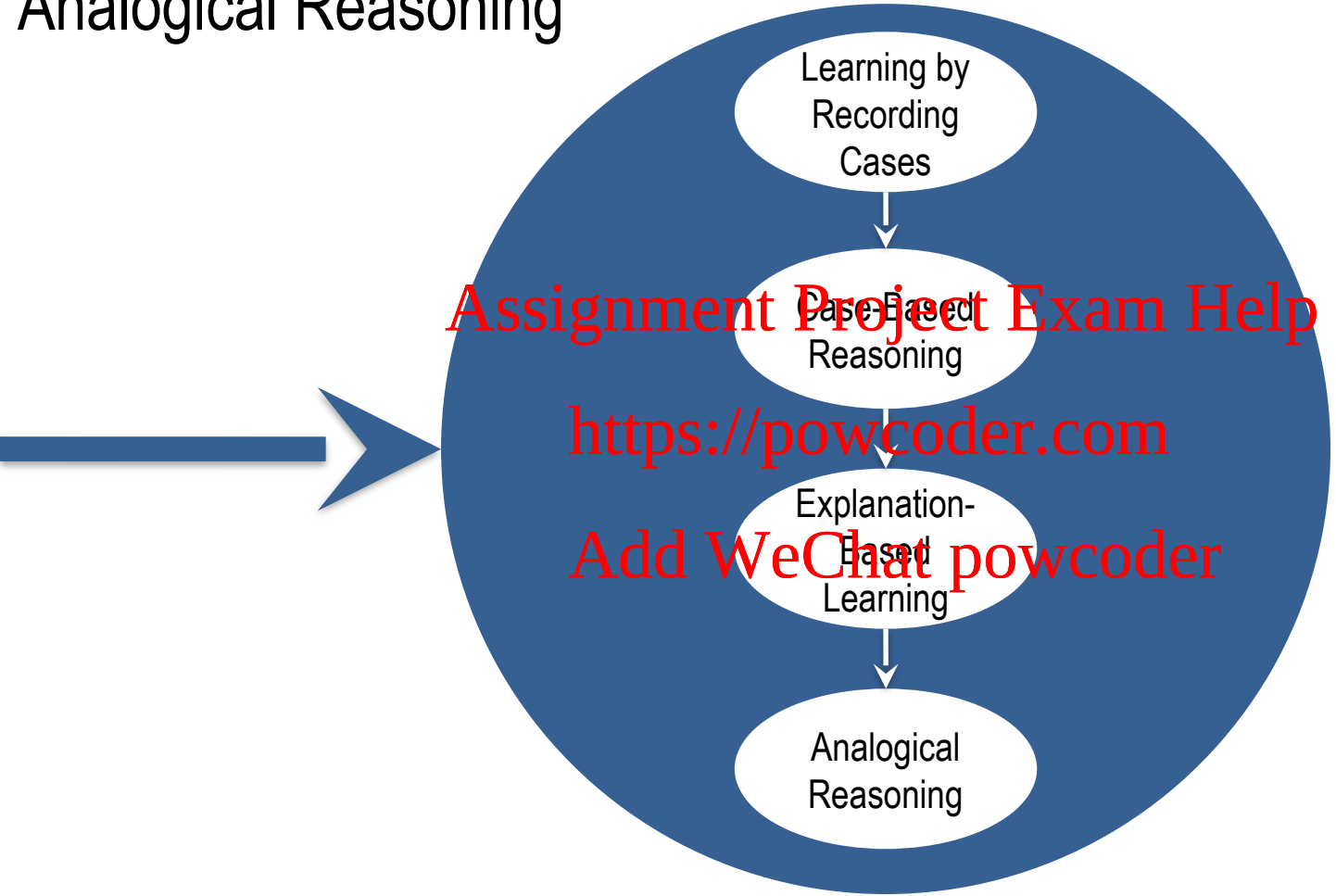


Analogical Reasoning



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Lesson Preview

- Need for case-based reasoning
- Case adaptation, evaluation, and storage
- Case retrieval revisited
- Advanced case-based reasoning

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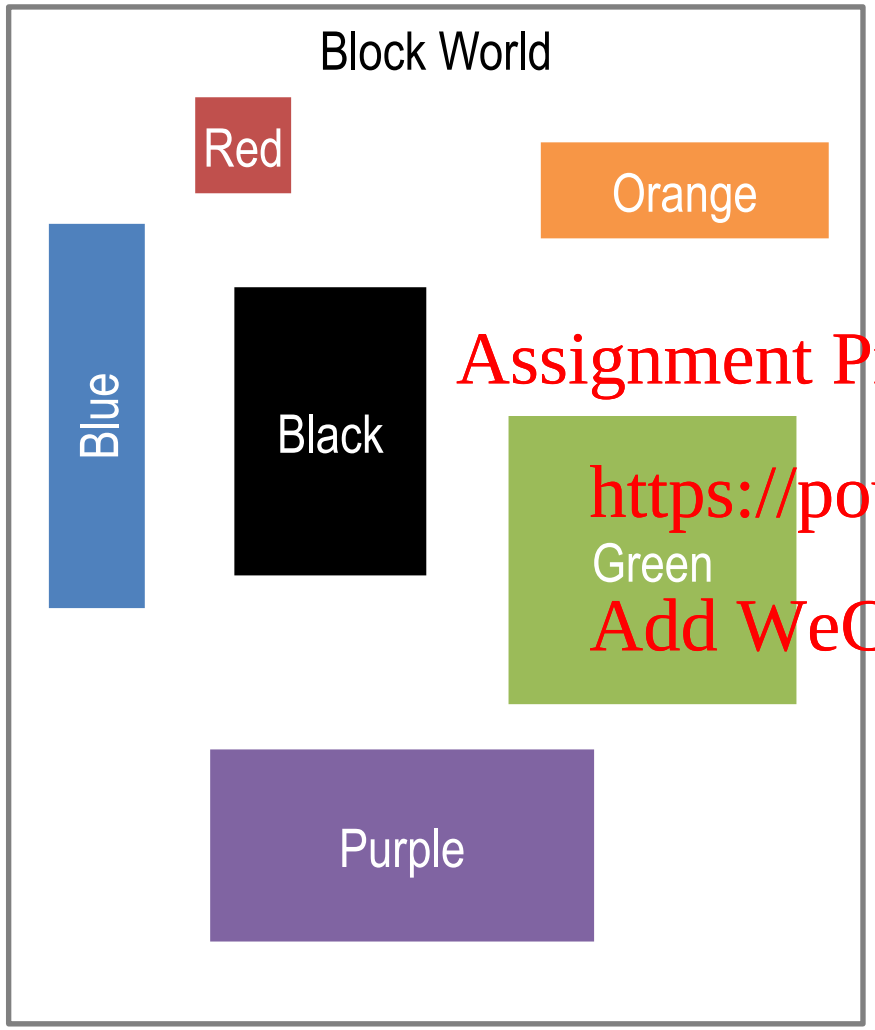

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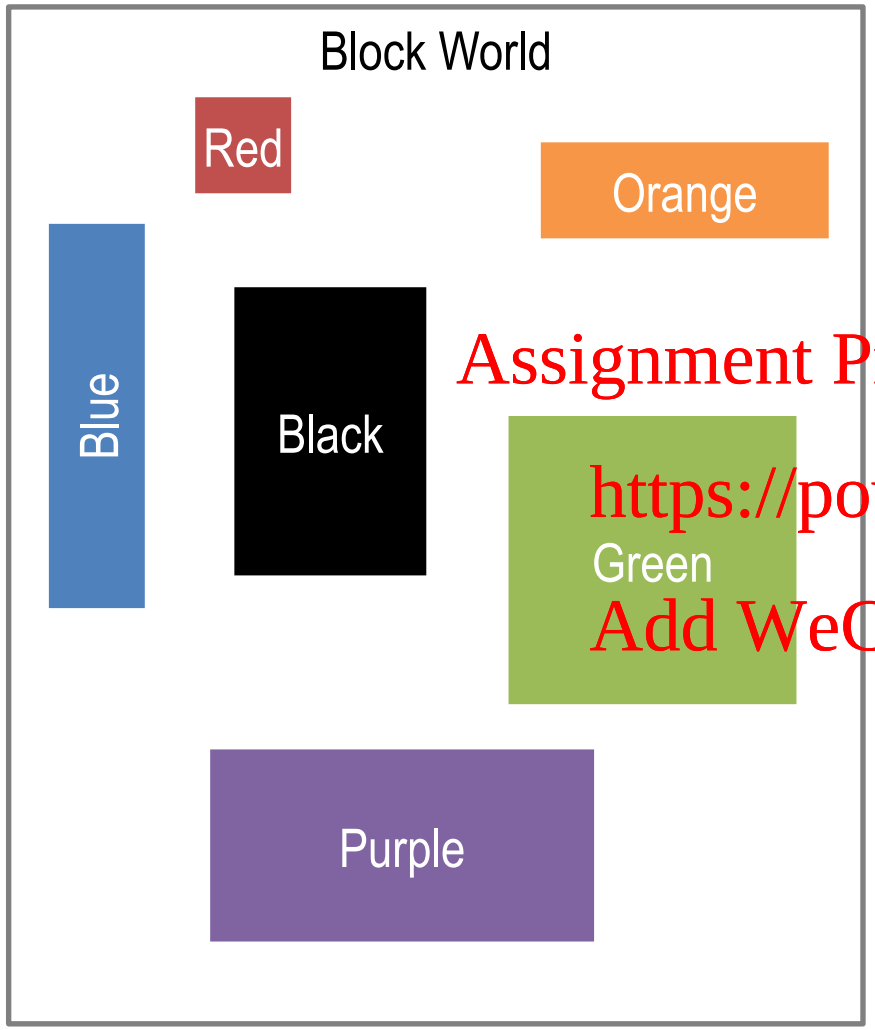
Orange



What color is this block?

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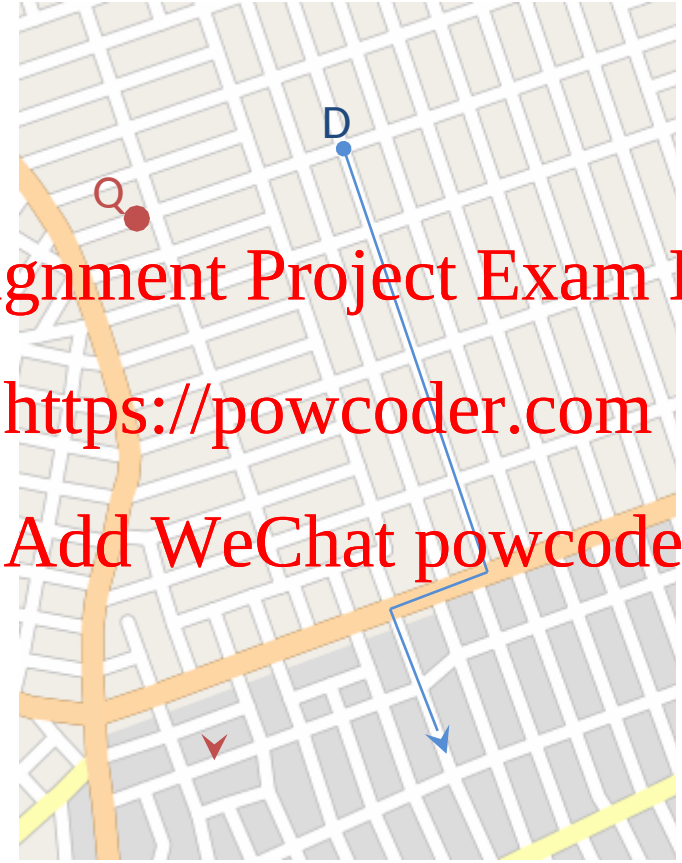

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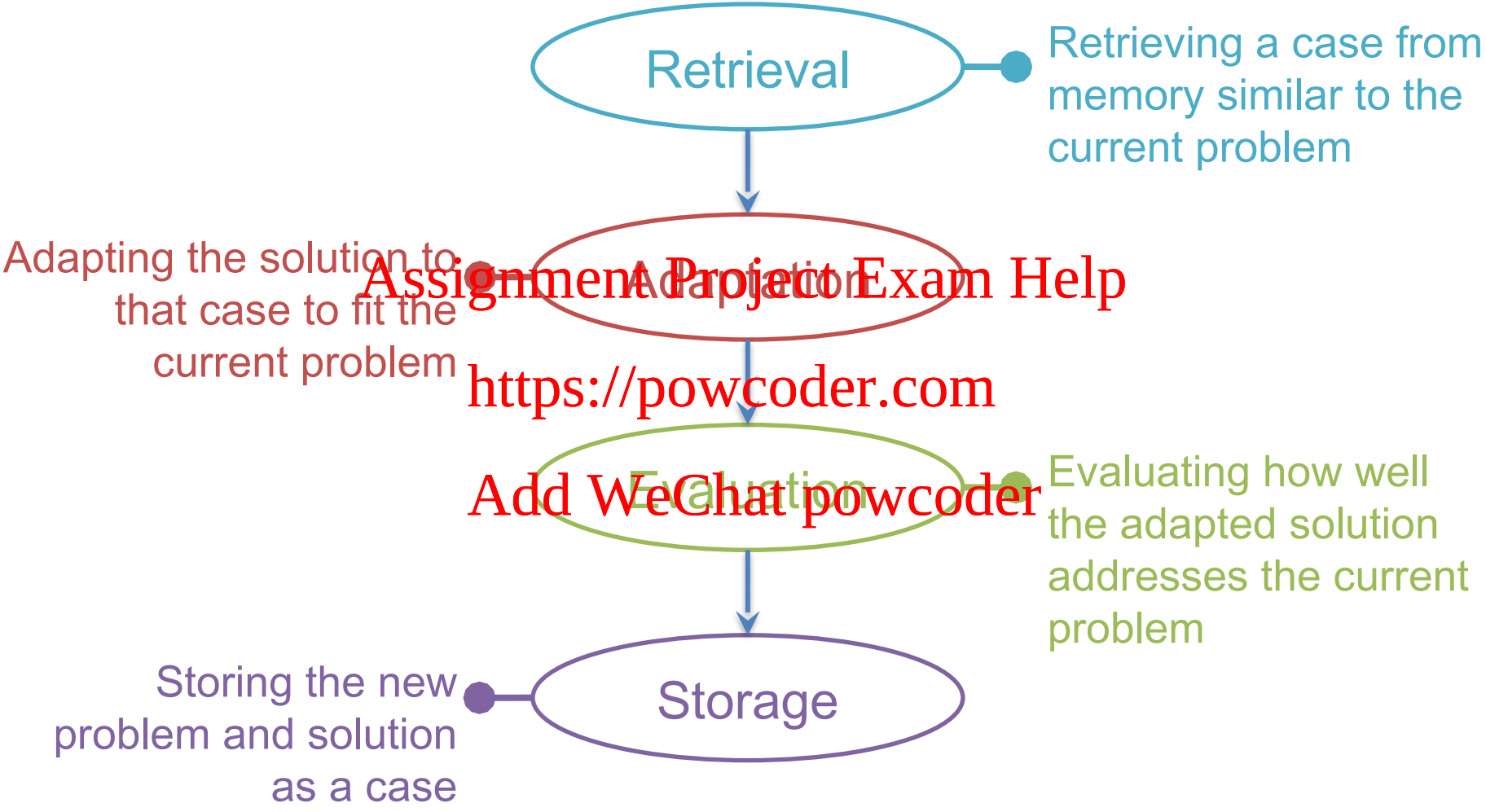

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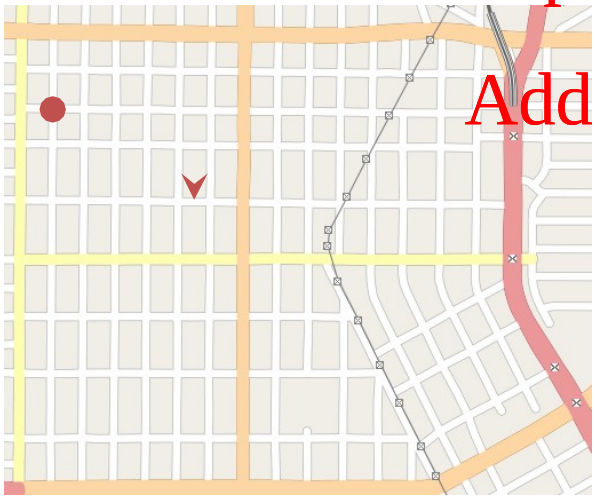

Assumptions of Case-Based Reasoning

- Patterns exist in the world
- Similar problems have similar solutions

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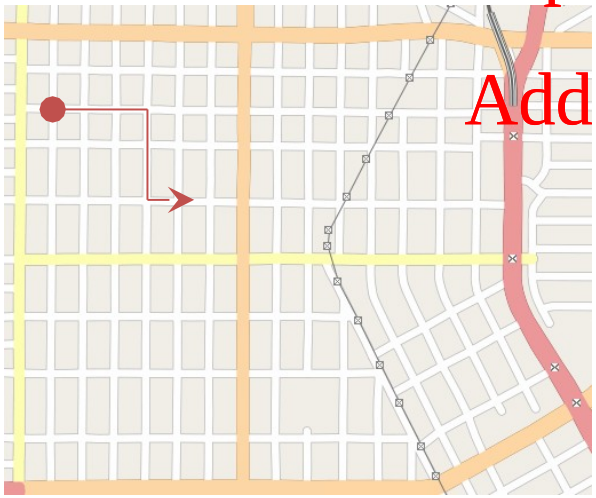

Assumptions of Case-Based Reasoning

- Patterns exist in the world
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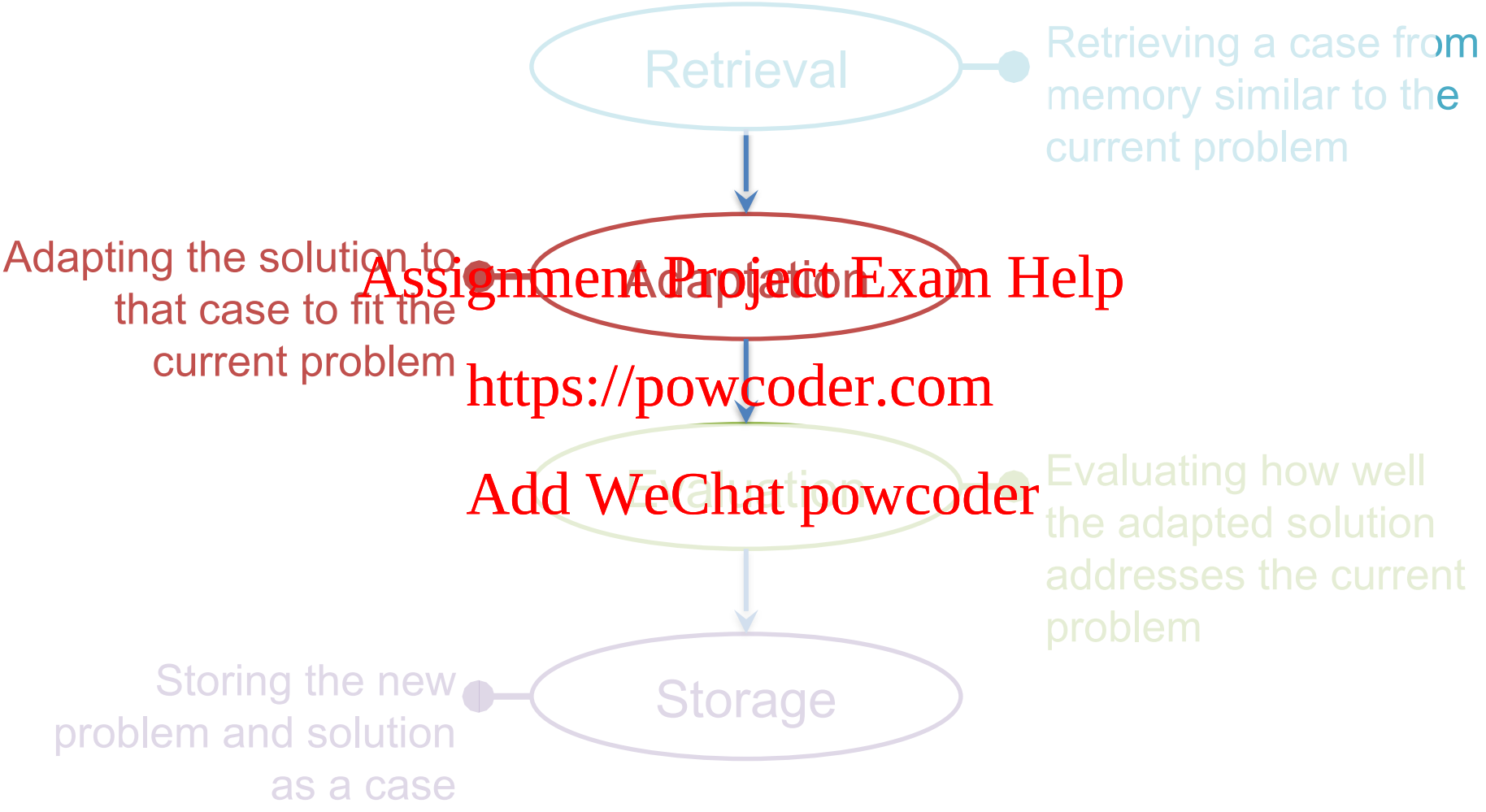

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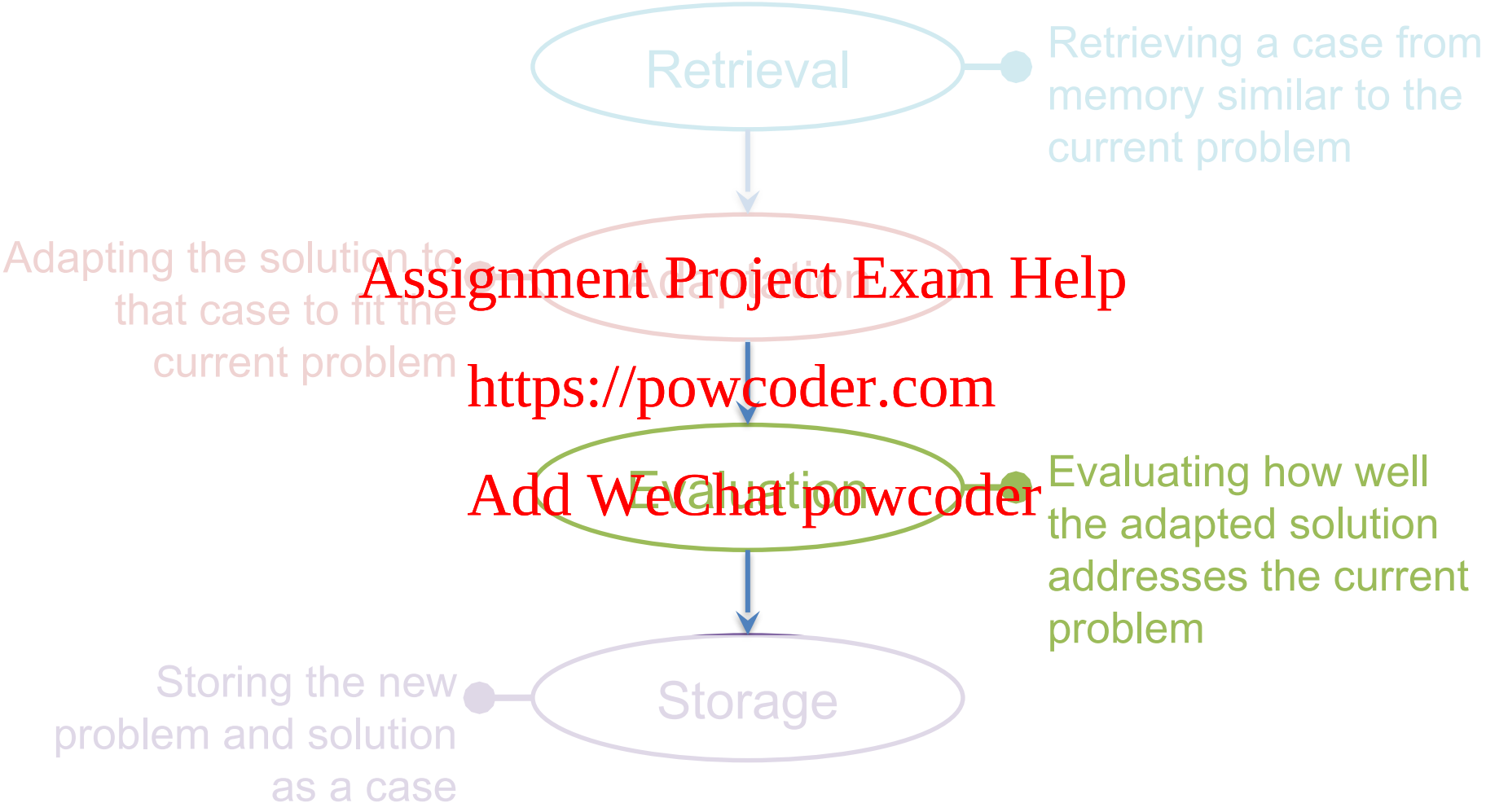

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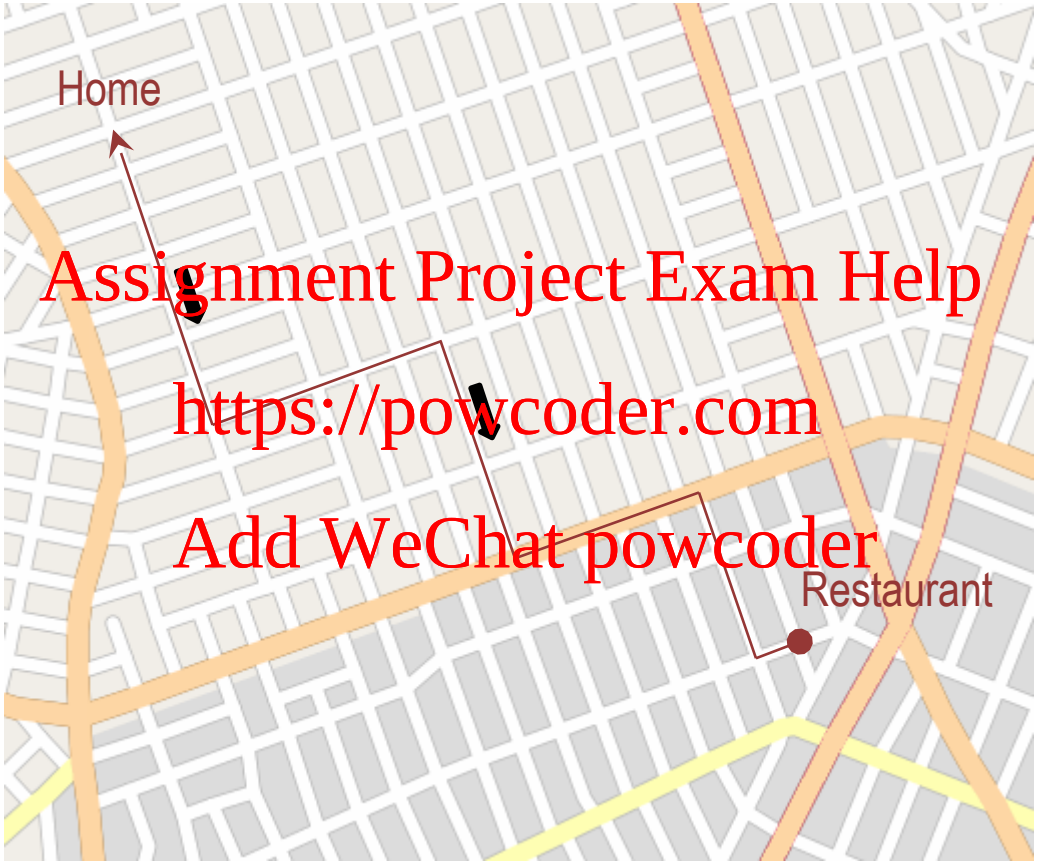

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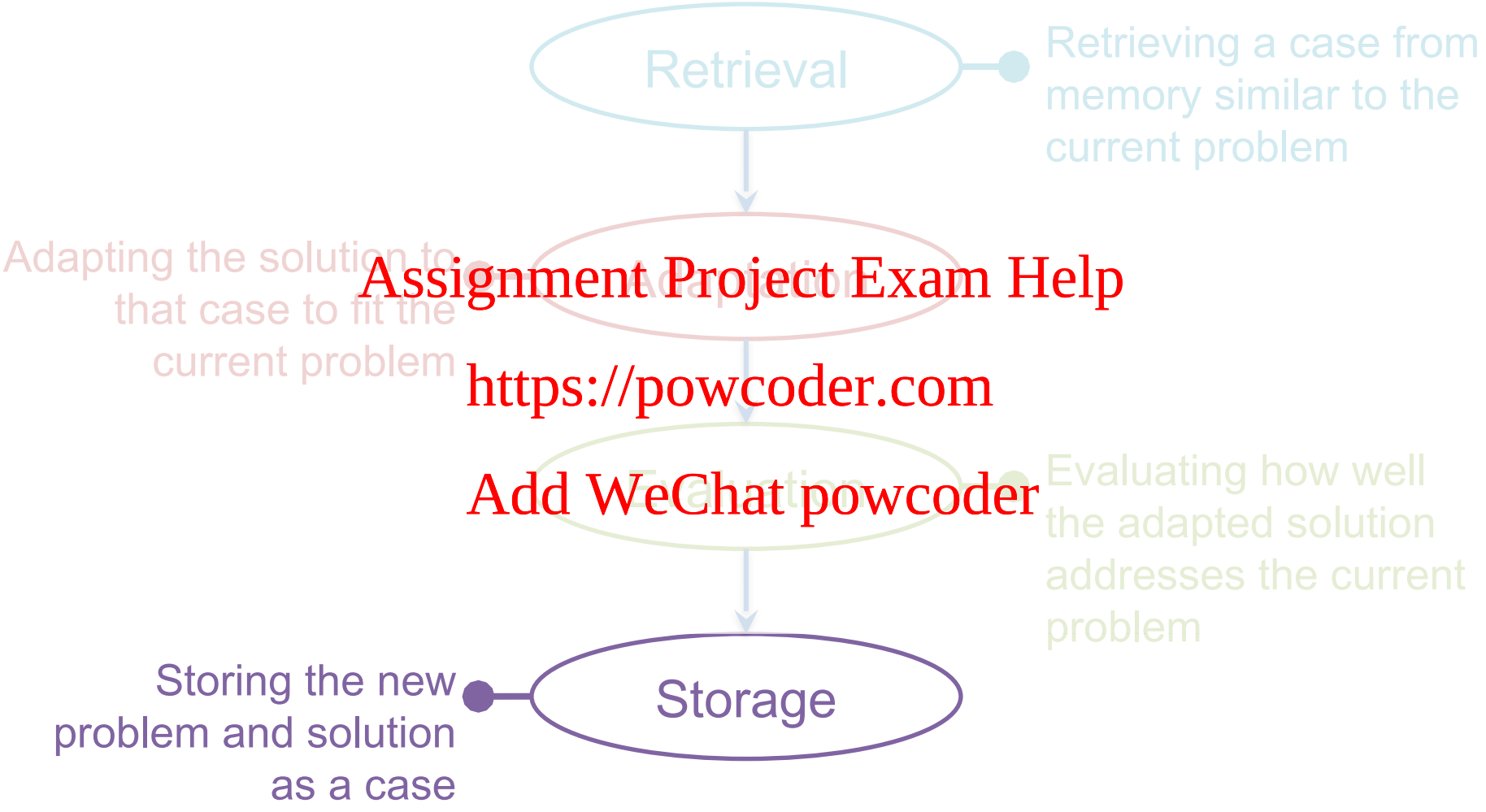

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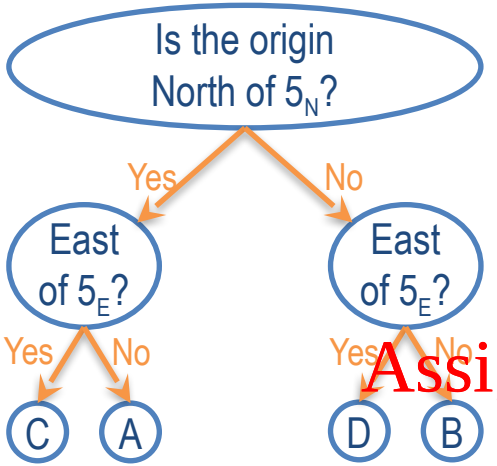

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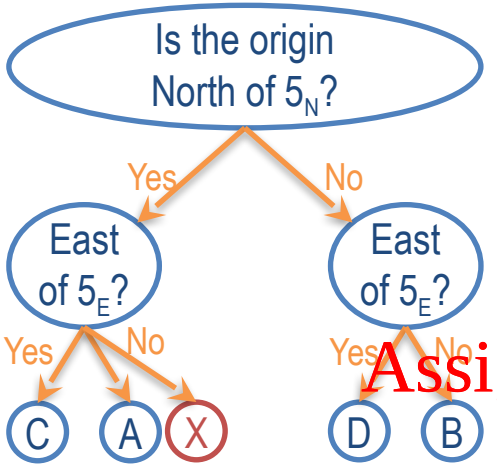

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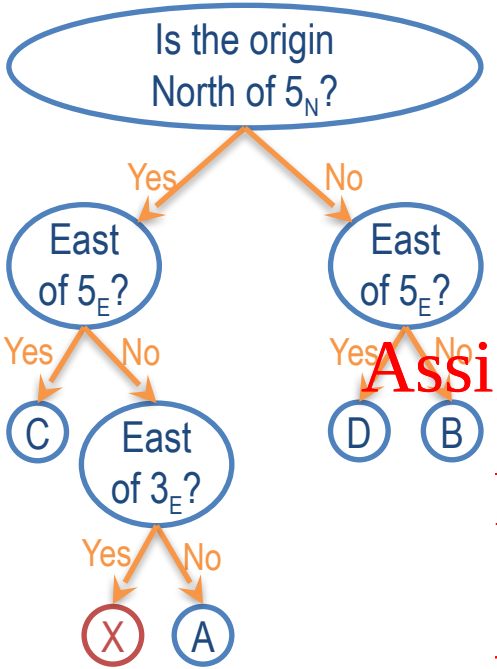

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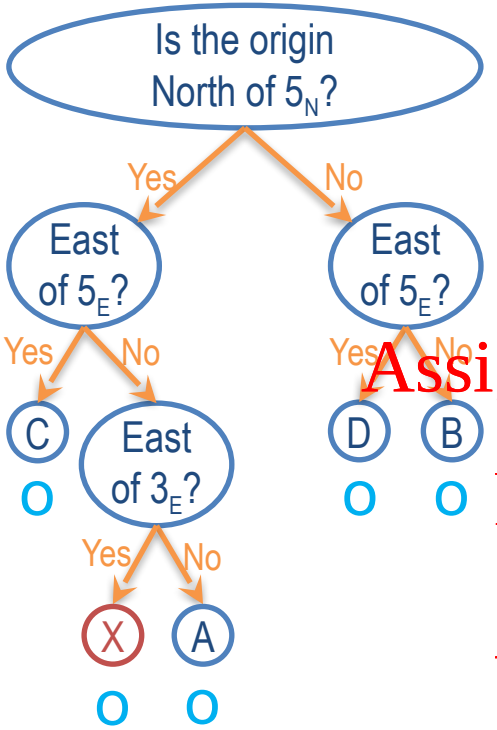
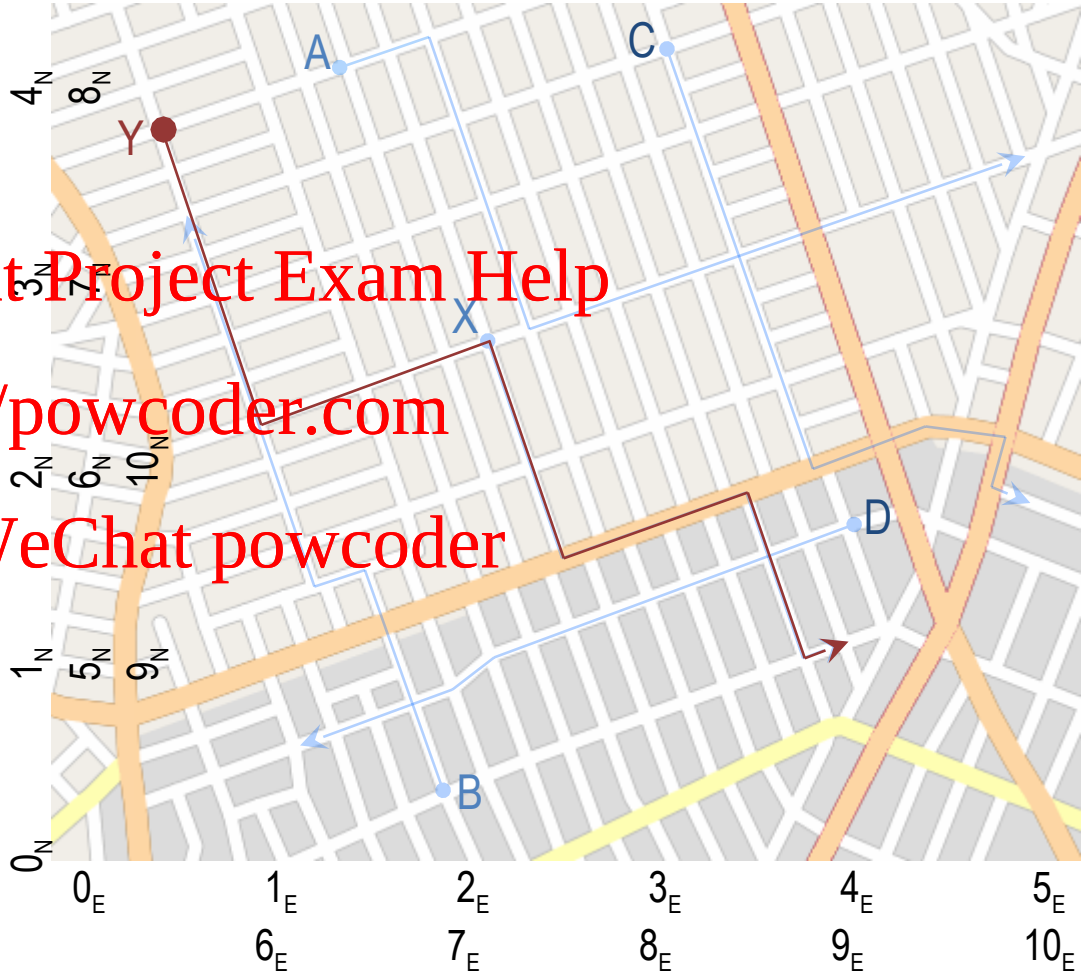


Under which branch should case Y be stored?



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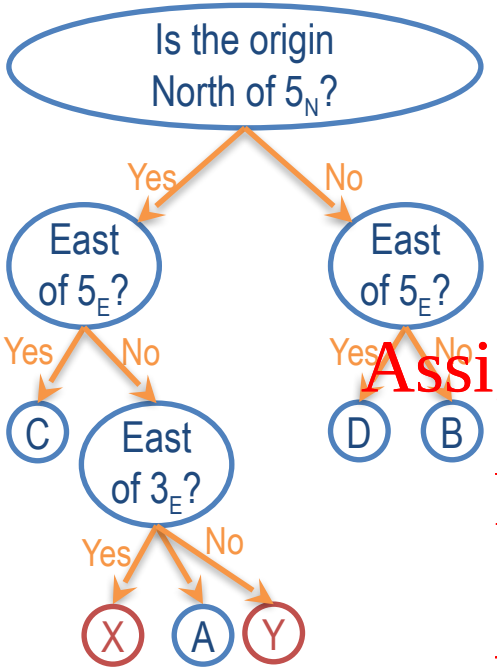

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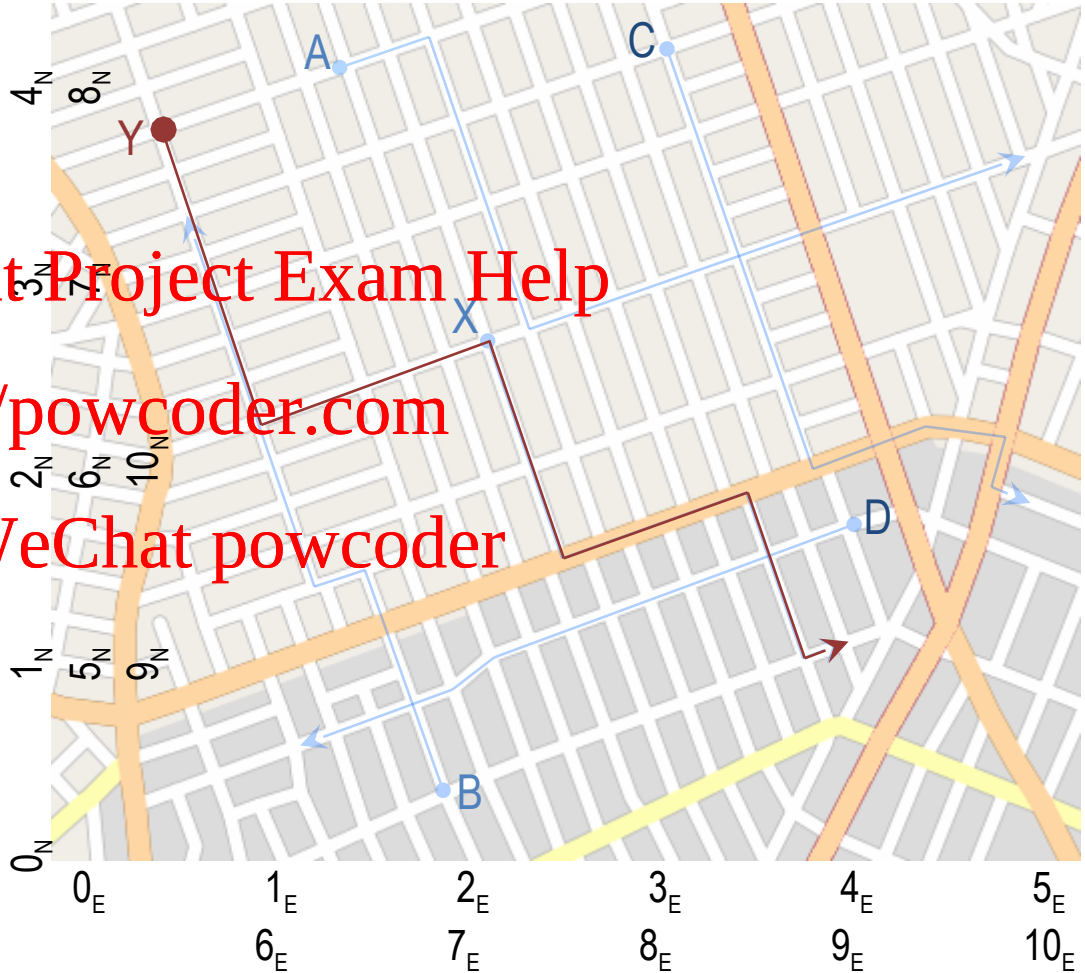
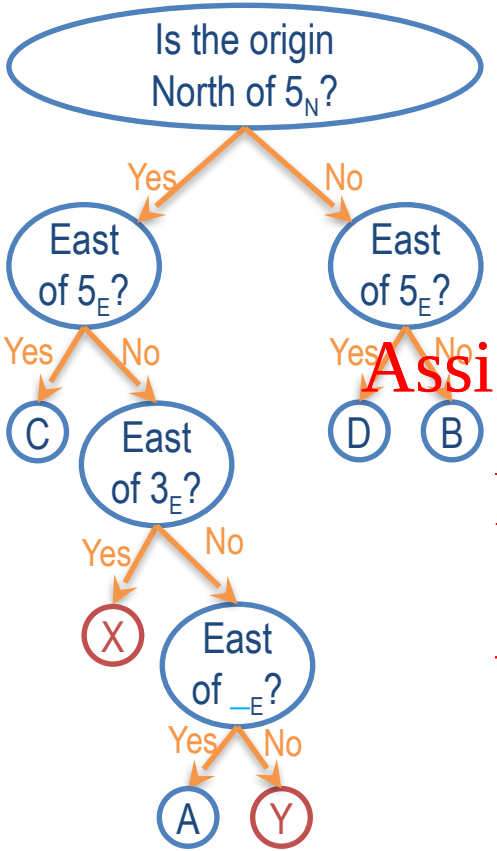
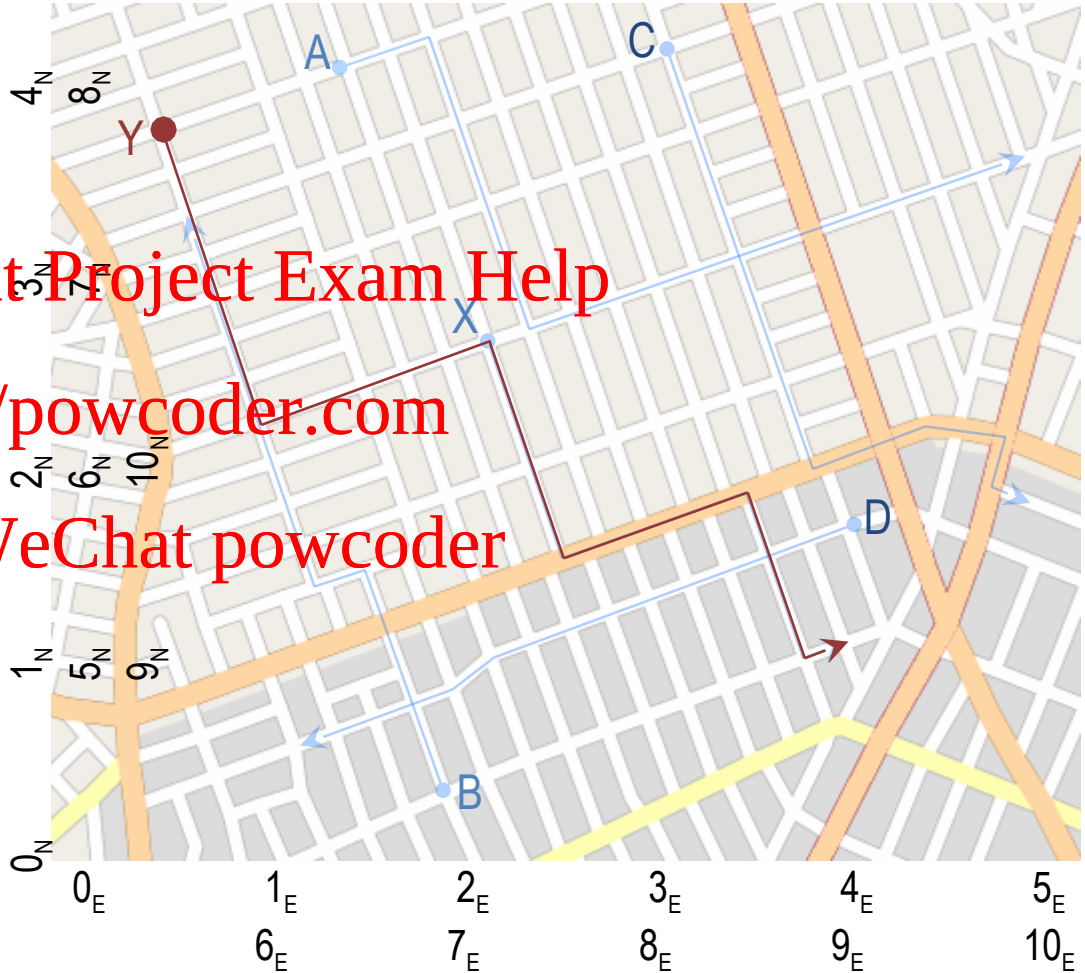




Where should this branch be divided for maximum differentiation?



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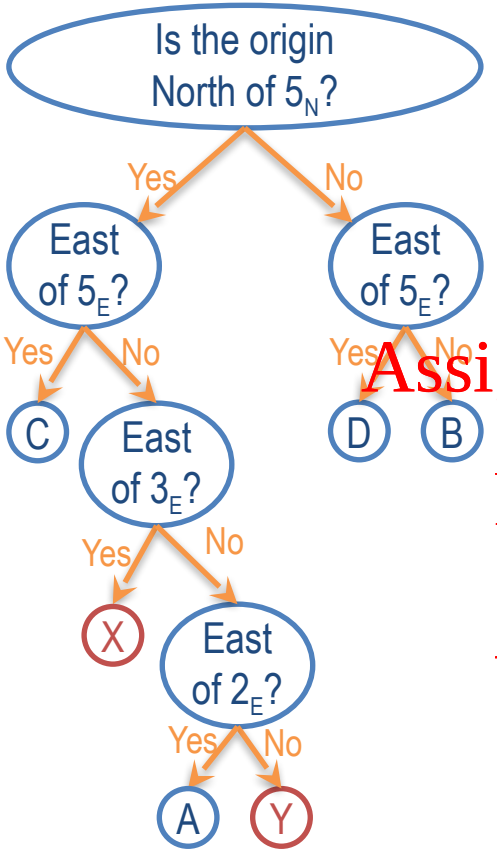

Where should this branch be divided for maximum differentiation?

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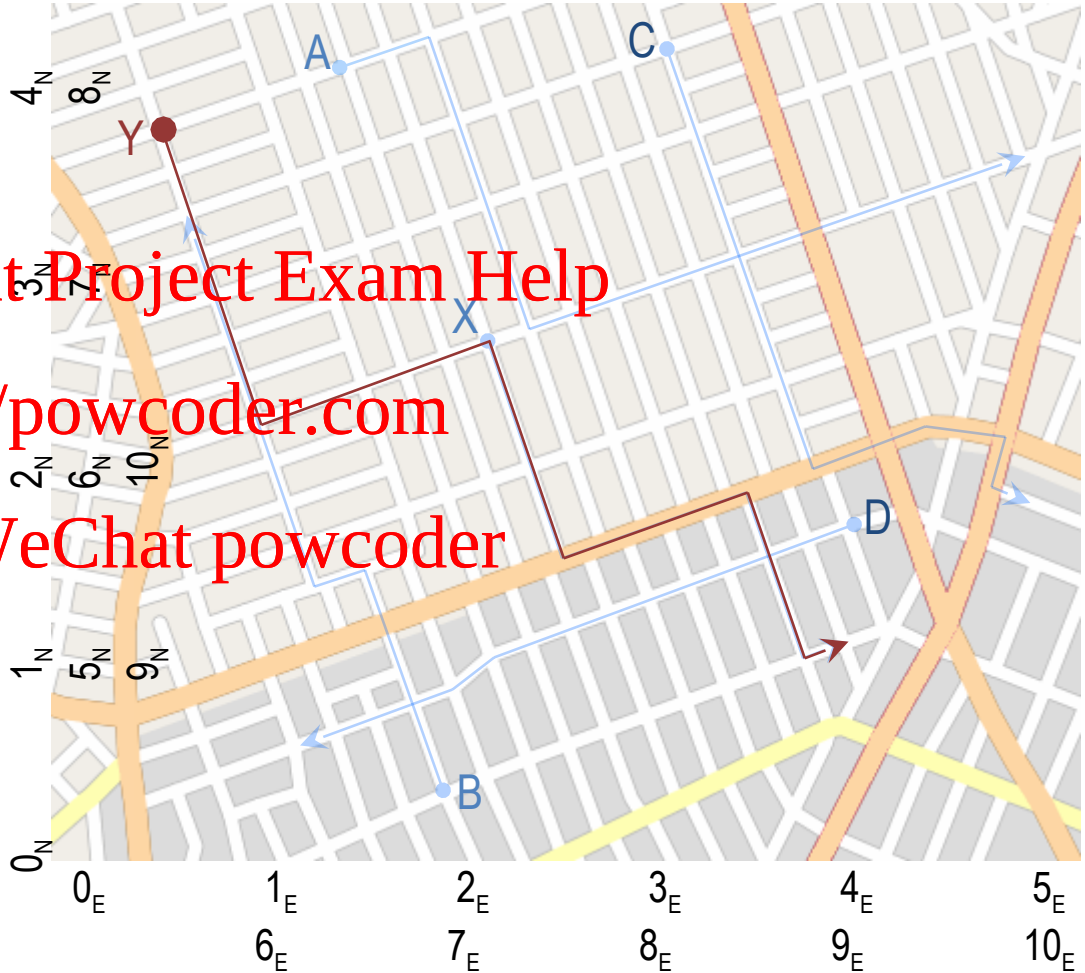

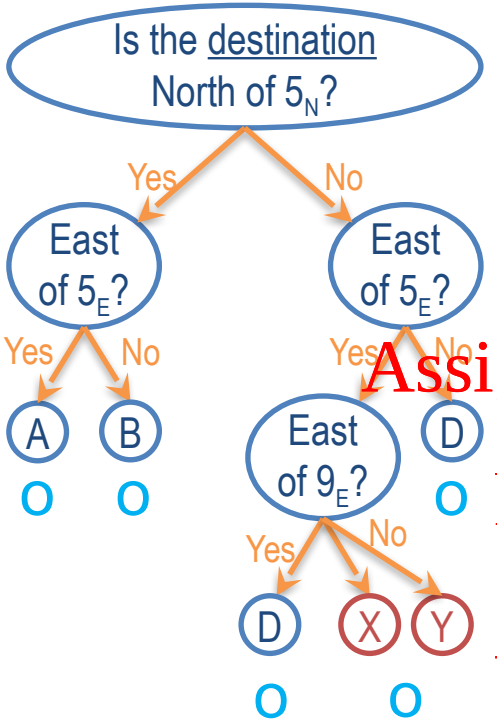

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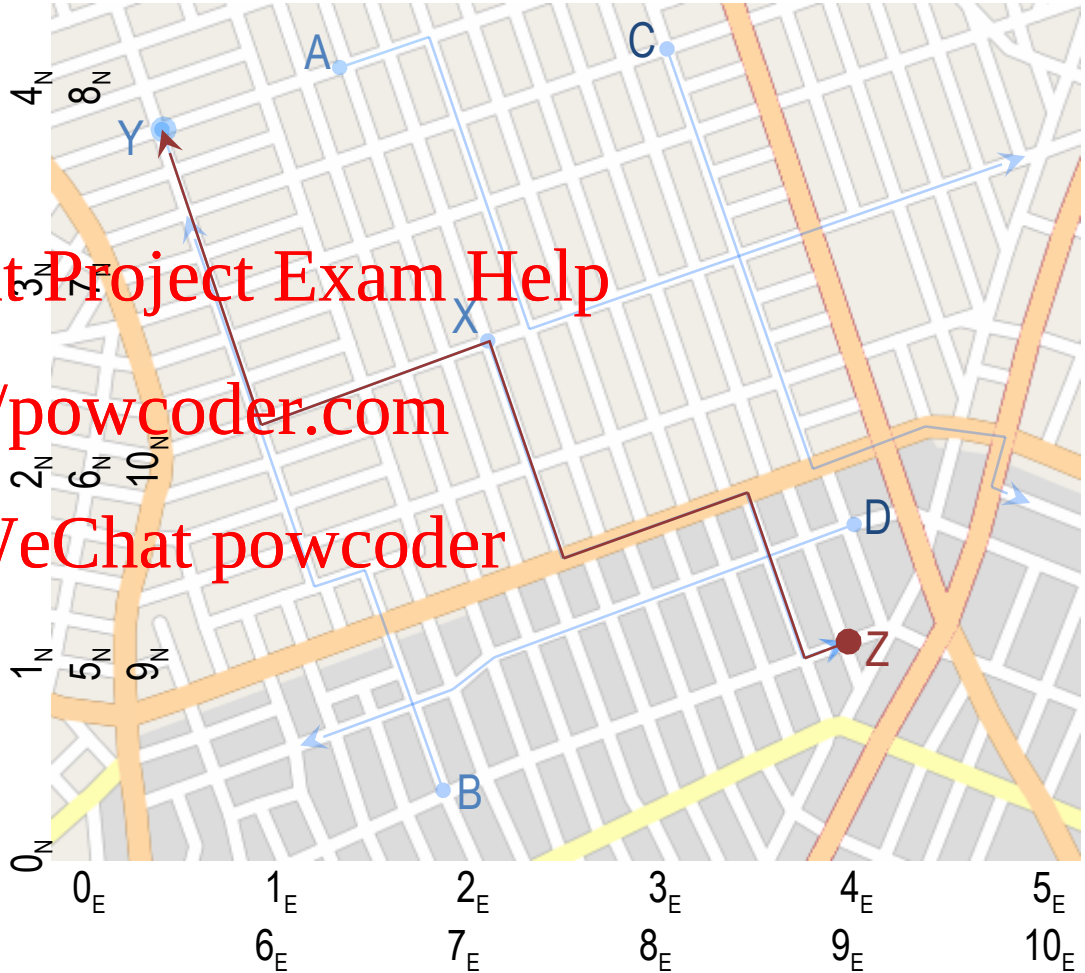
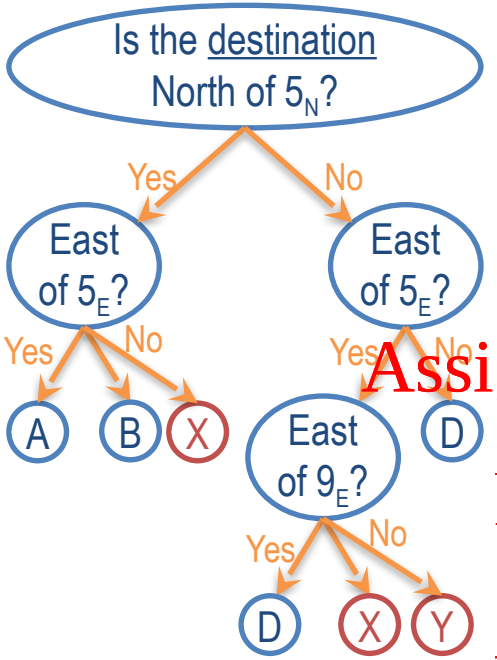
Under which branch will case Z be stored?





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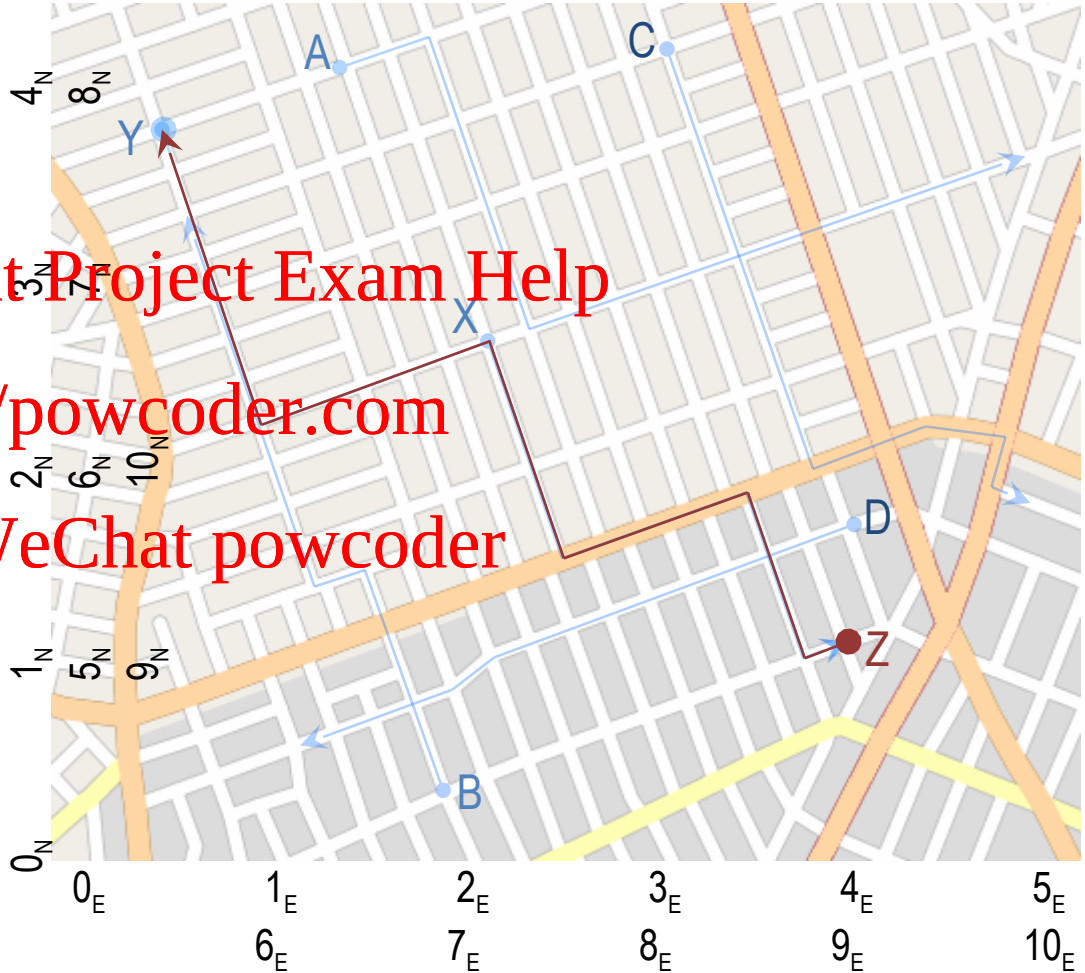
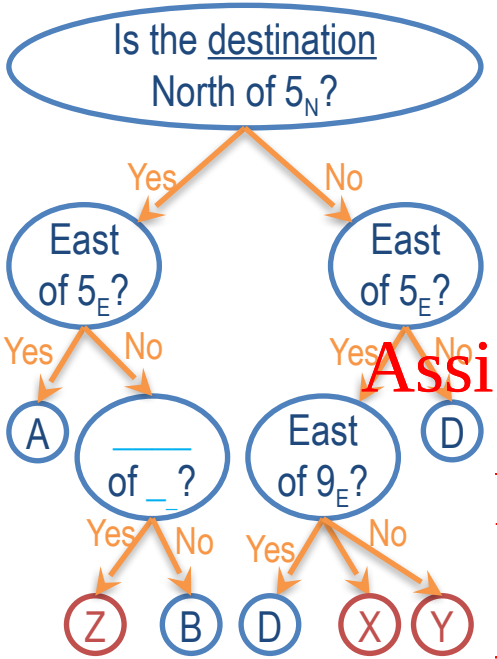
Under which branch will case Z be stored?





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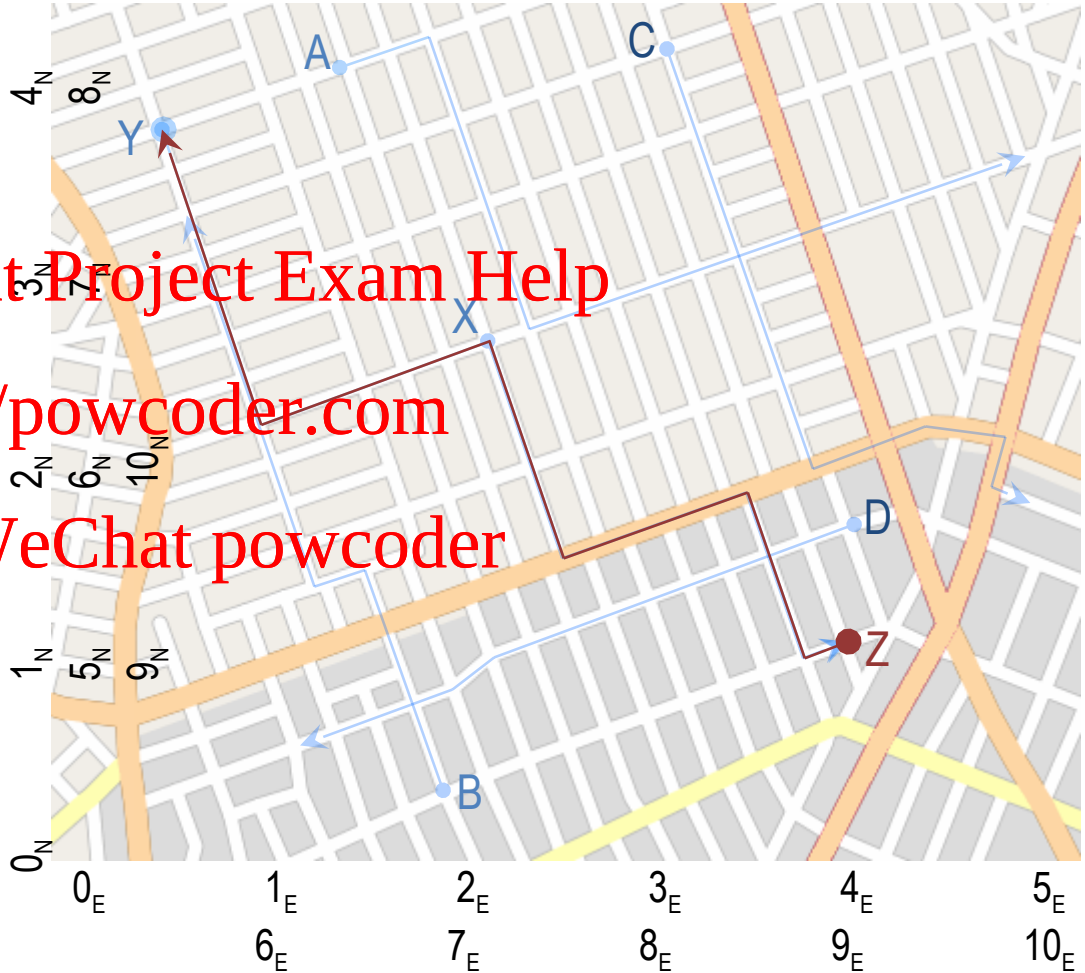
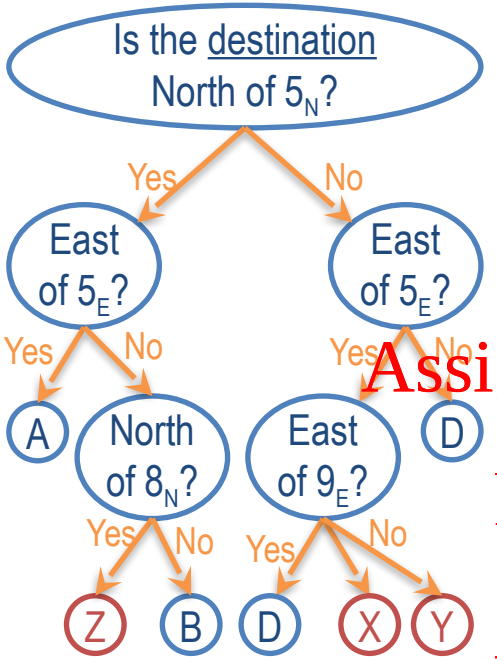
Where should this branch be divided for maximum differentiation?





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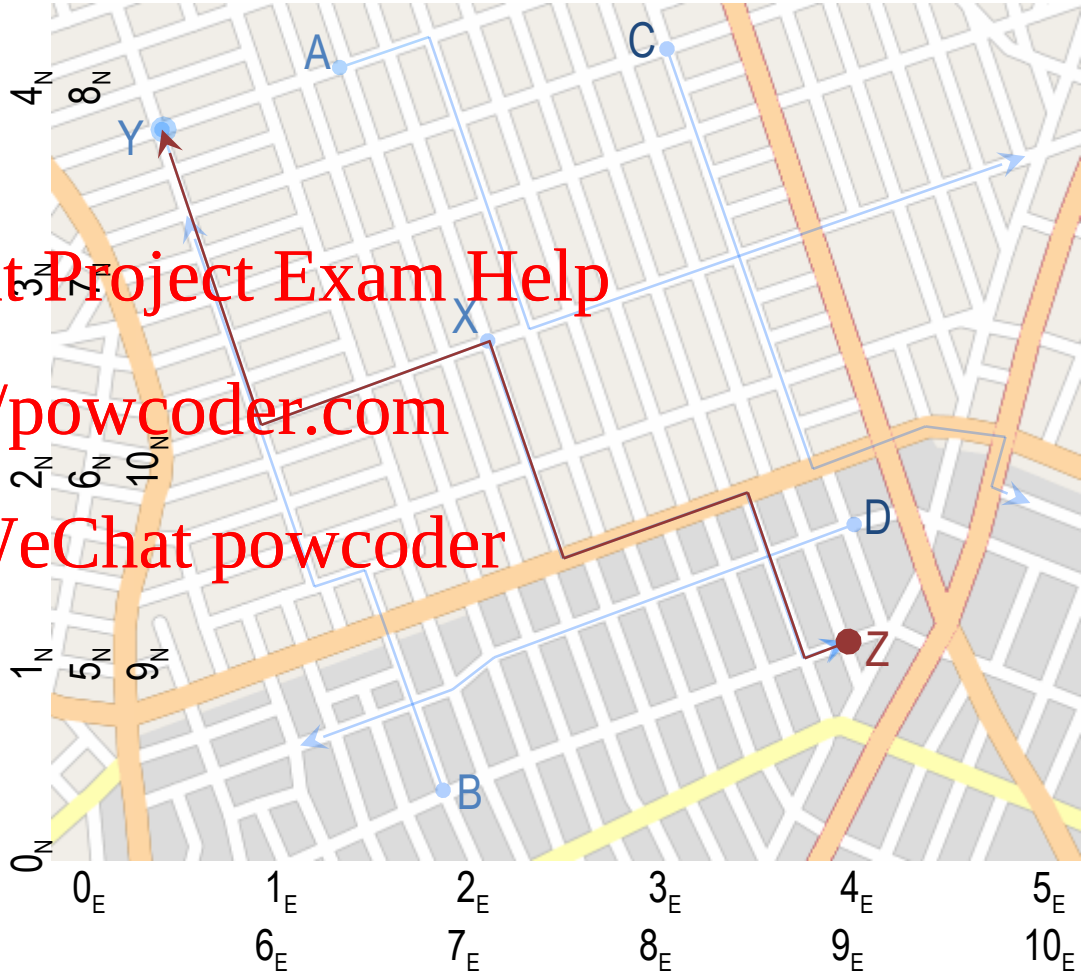
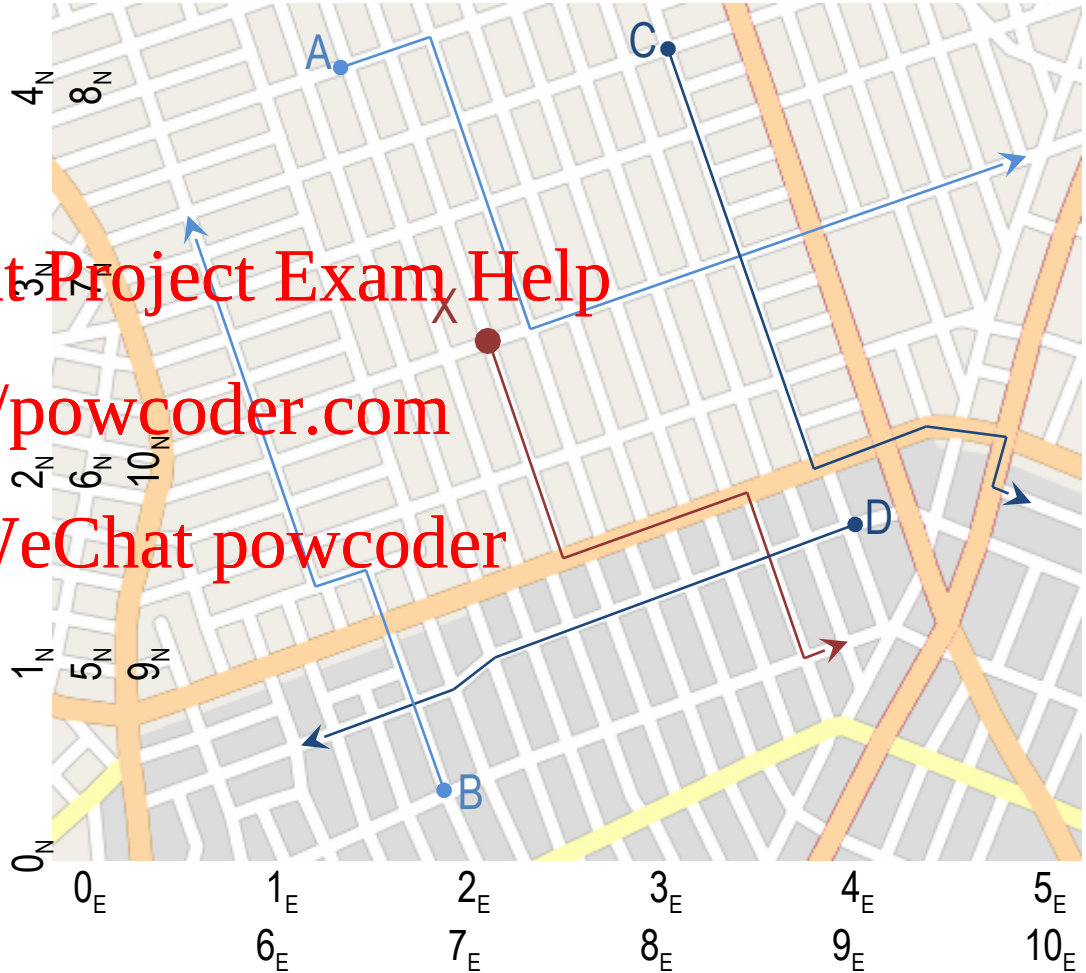


Where should this branch be divided for maximum differentiation?

Route	$Origin_X$	$Origin_Y$
A	3_E	9_N
B	4_E	1_N
C	7_E	9_N
D	8_E	4_N



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Route	$Origin_X$	$Origin_Y$
A	3_E	9_N
B	4_E	1_N
C	7_E	9_N
D	8_E	4_N
X	**4_E**	**6_N**

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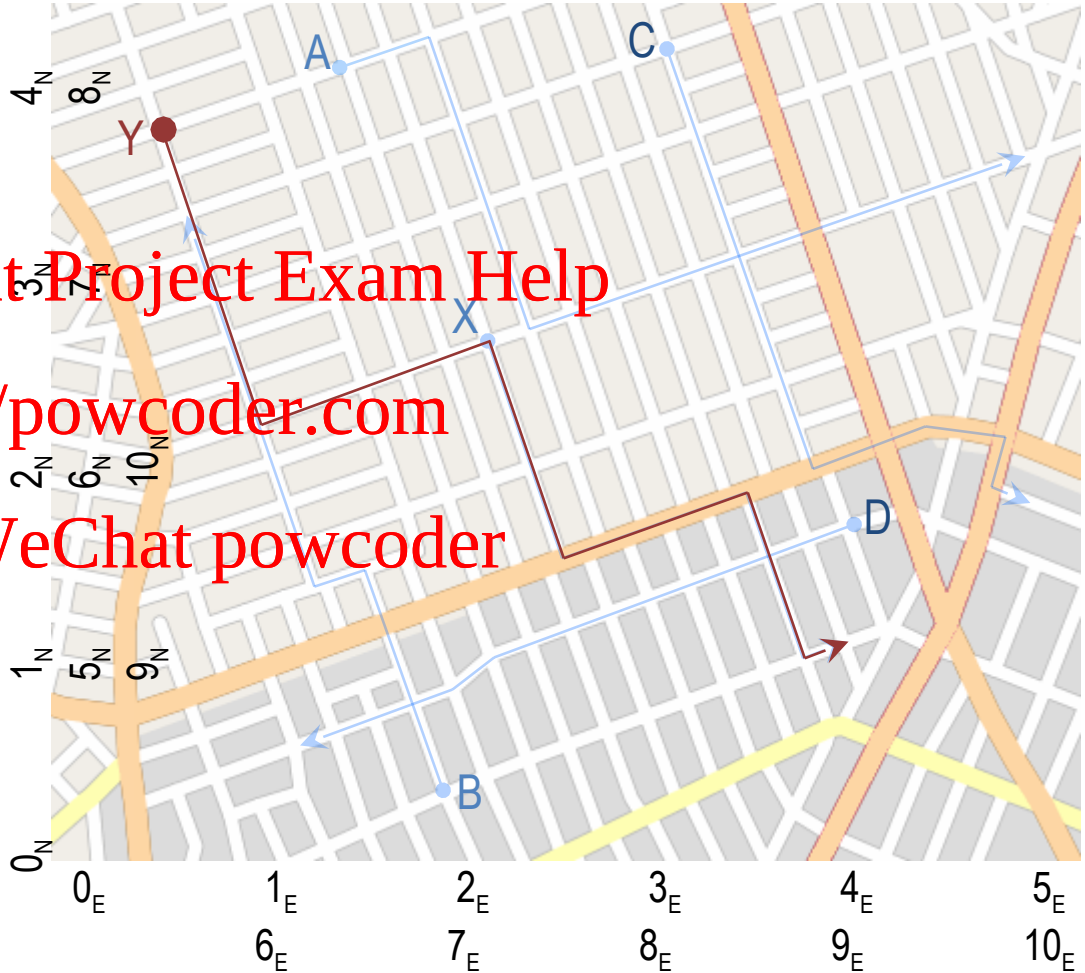
Route	$Origin_X$	$Origin_Y$
A	3_E	9_N
B	4_E	1_N
C	7_E	9_N
D	8_E	4_N
X	4_E	6_N
Y	1_E	9_N

What tags should be used for case Y?



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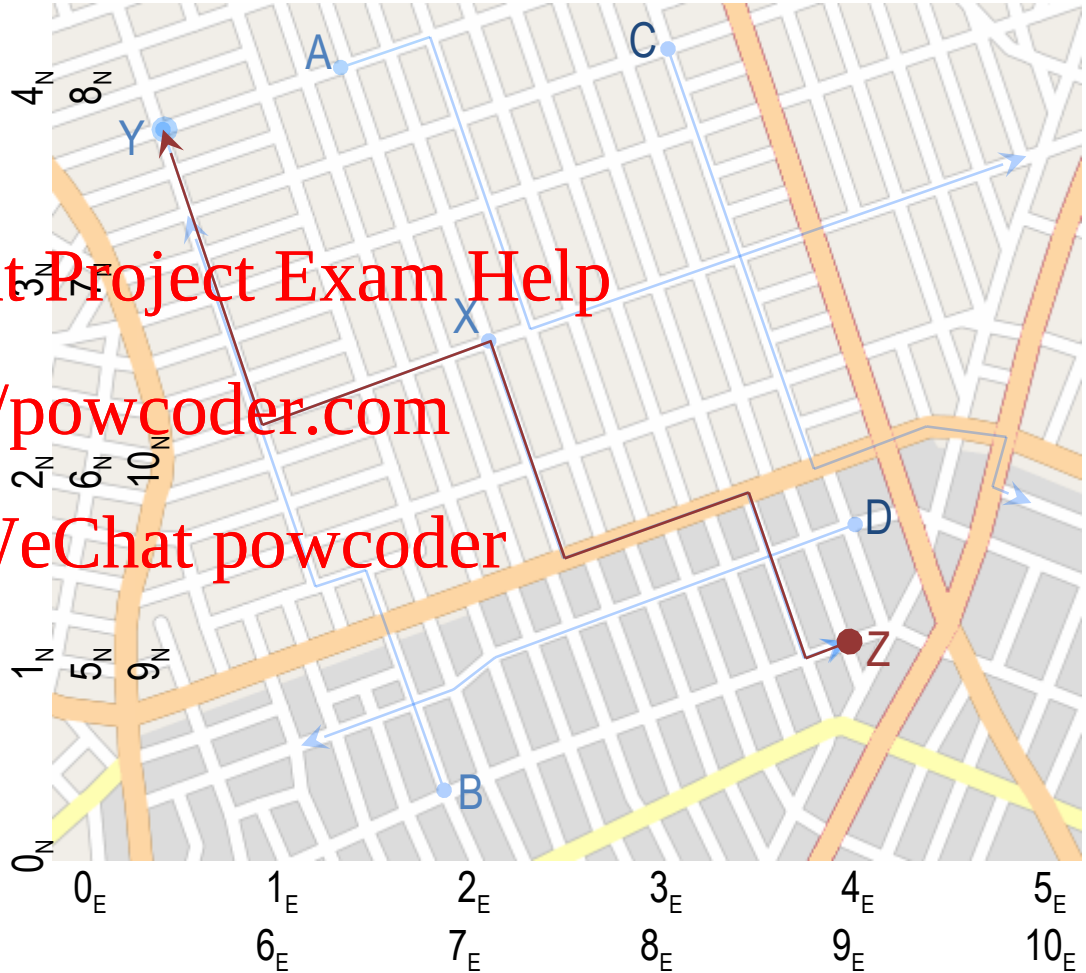
Route	$Destination_X$	$Destination_Y$
A	10_E	8_N
B	1_E	8_N
C	10_E	4_N
D	2_E	1_N
X	8_E	3_N
Y	8_E	2_N
Z	1_E	9_N

What tags should be used for case Z?



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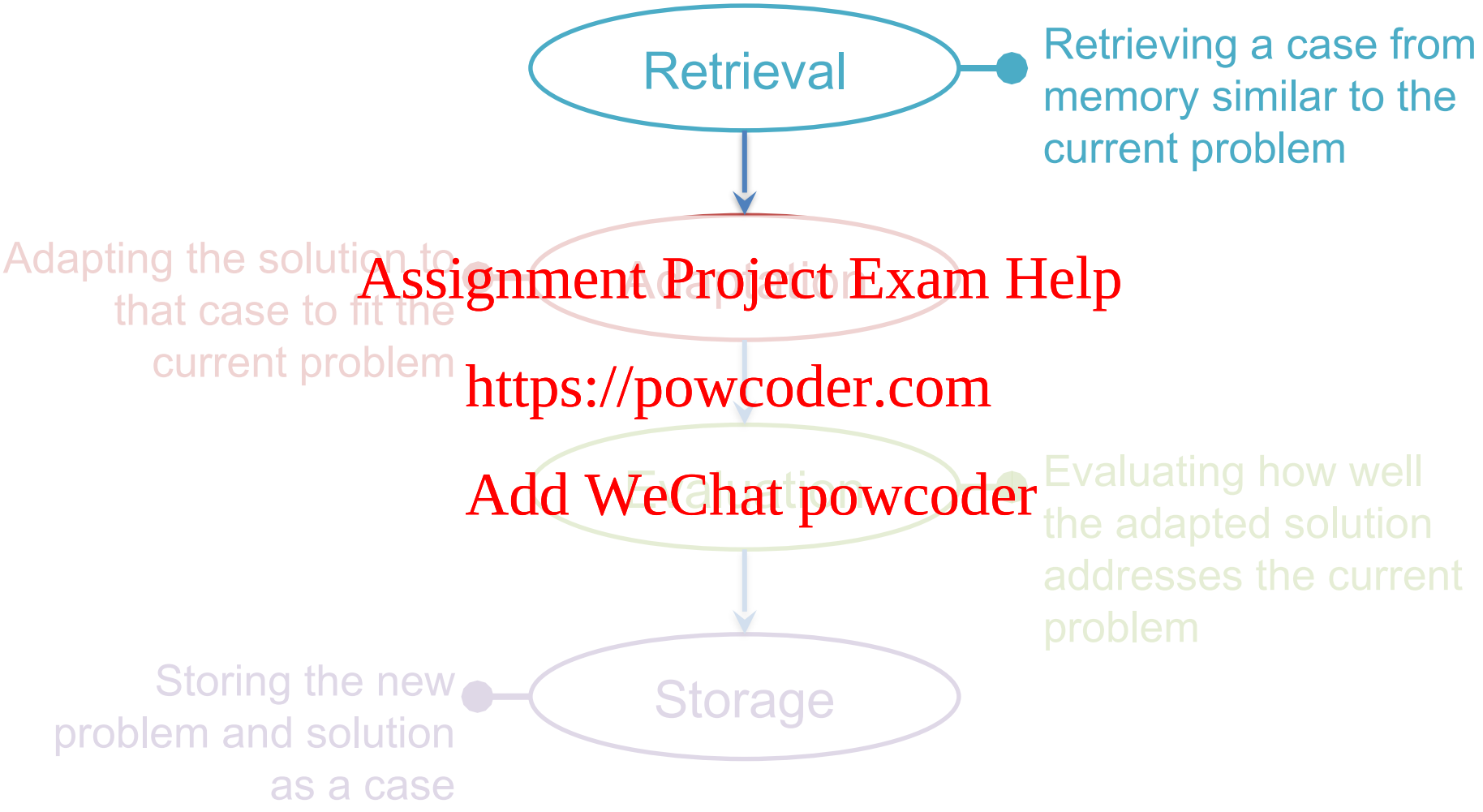

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Route	Destination$_X$	Destination$_Y$
A	10_E	8_N
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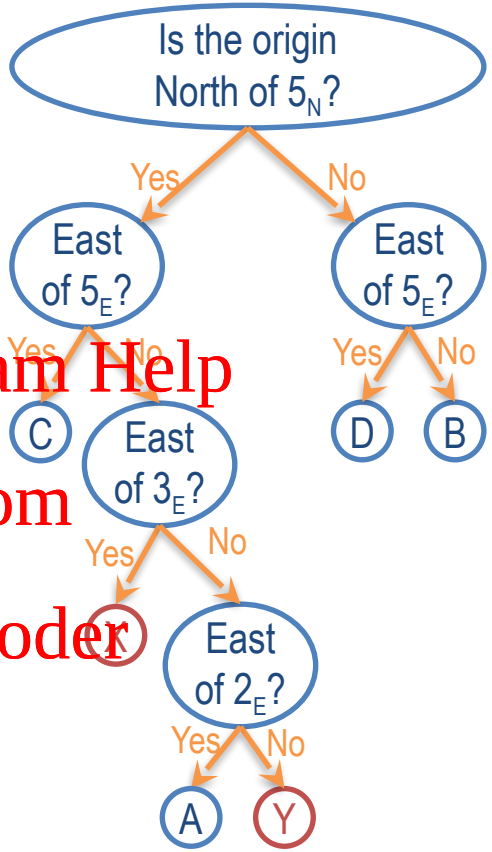
X	8_E	2_N
Y	8_E	2_N
Z	1_E	9_N



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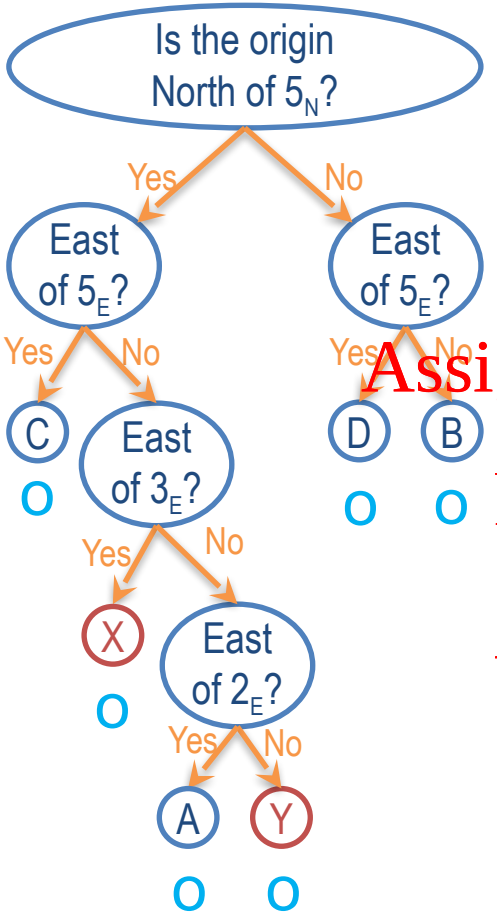
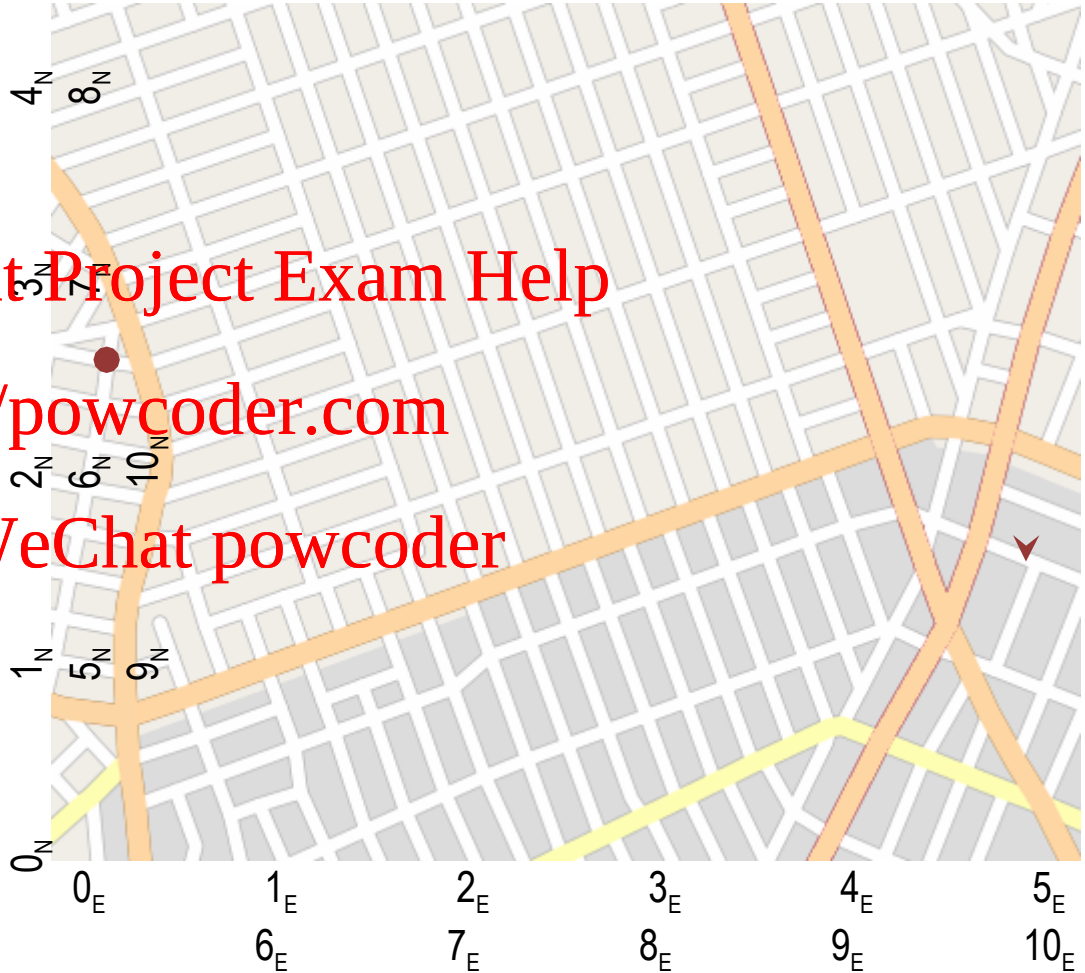


What case should be retrieved and adapted?



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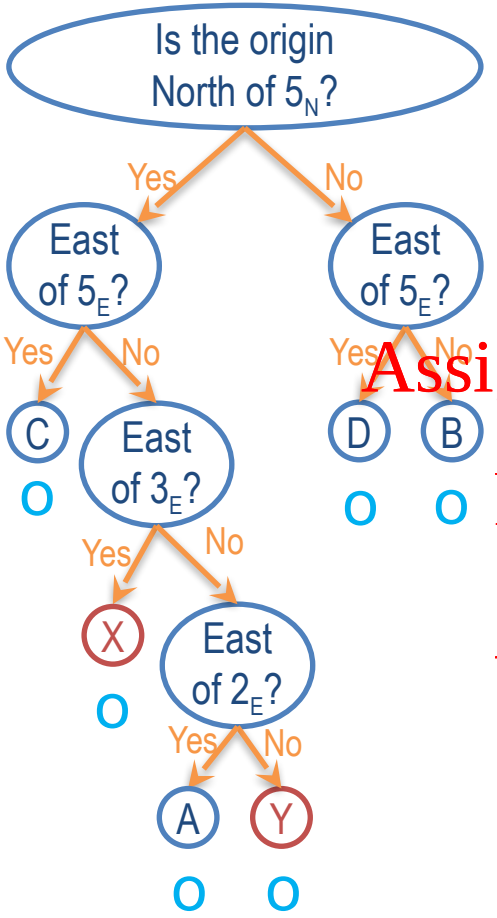

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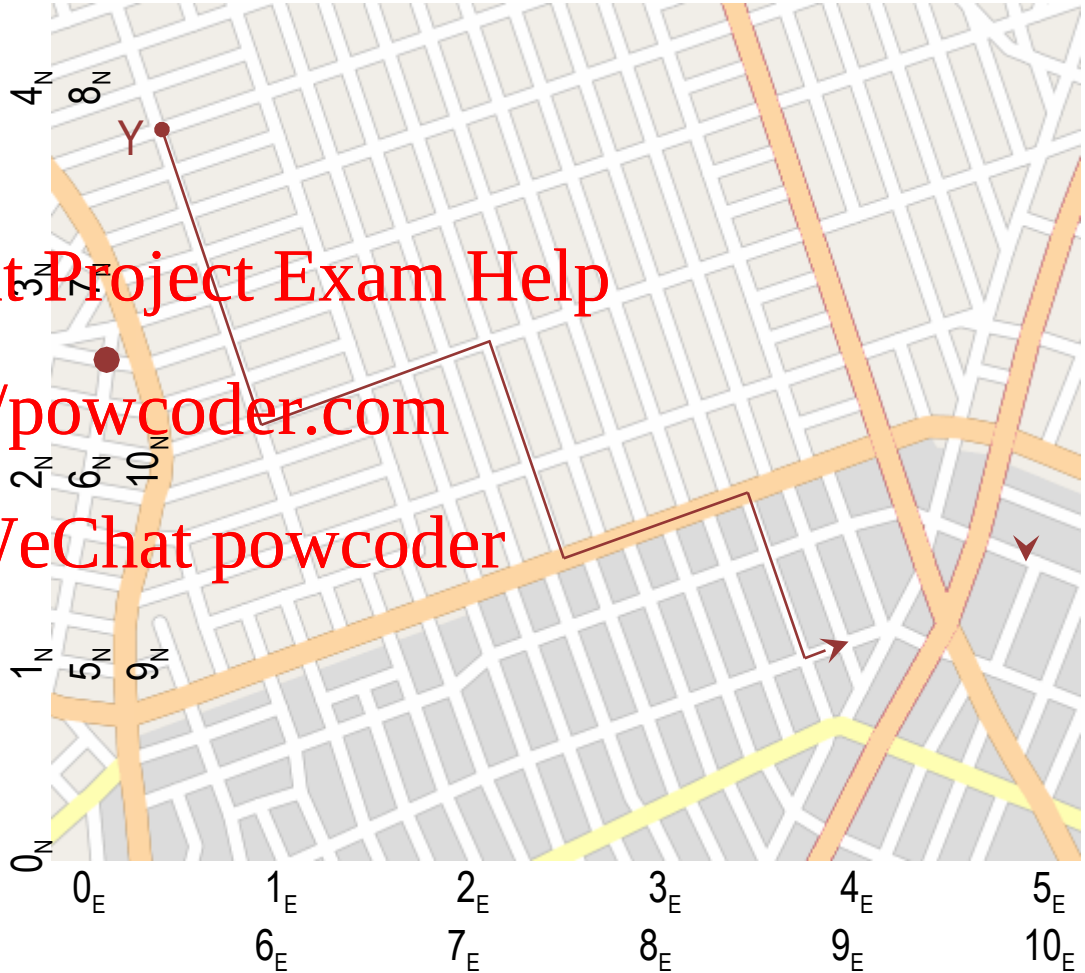

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Route	$Destination_X$	$Destination_Y$
o A	10_E	8_N
o B	1_E	8_N
o C	10_E	4_N
o D	2_E	1_N
o X	8_E	2_N
o Y	8_E	2_N
o Z	1_E	9_N

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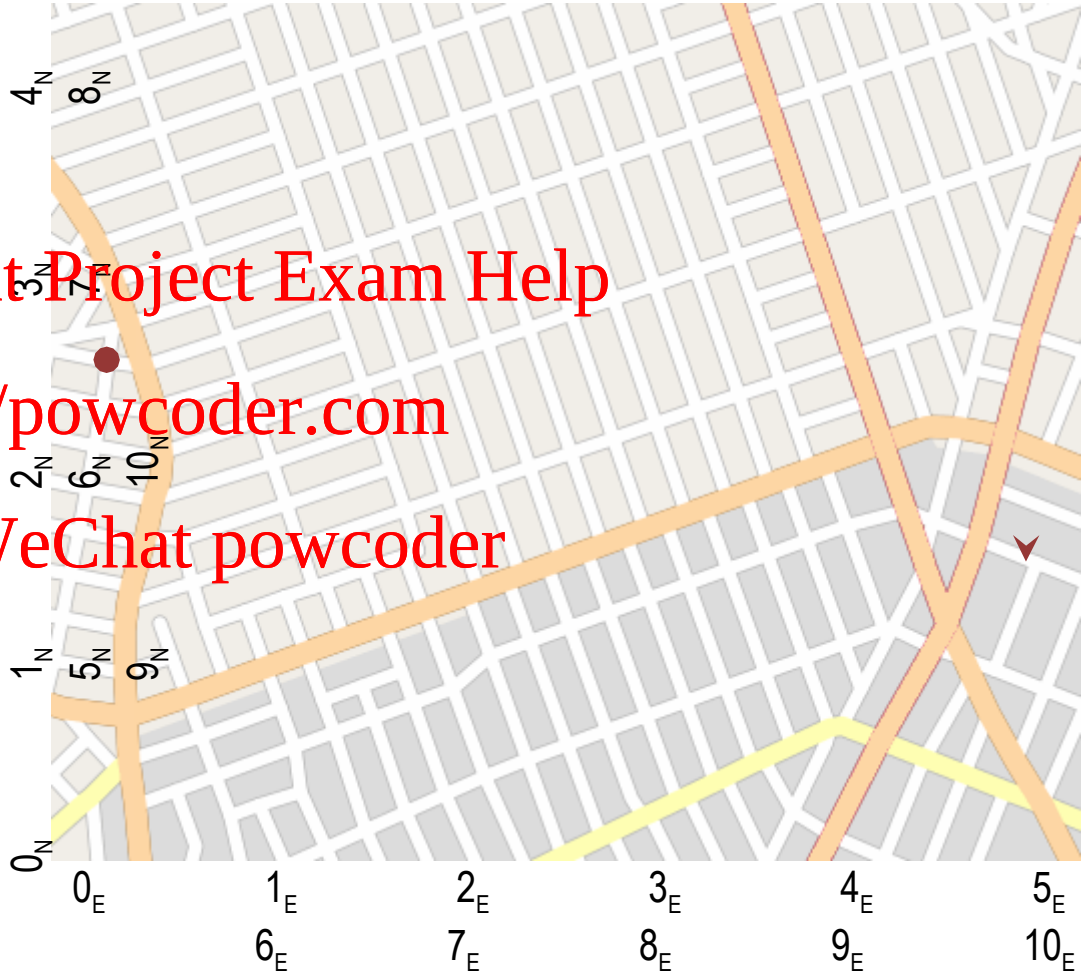

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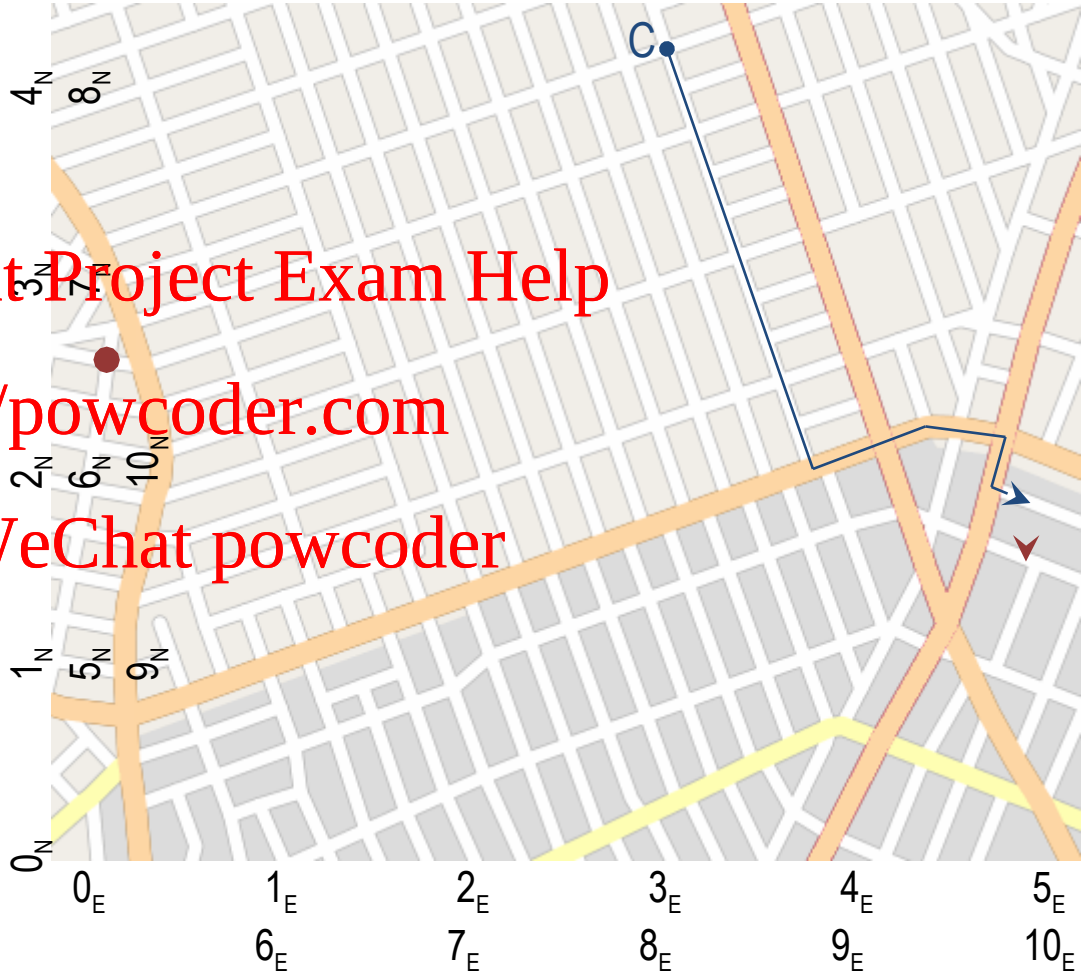

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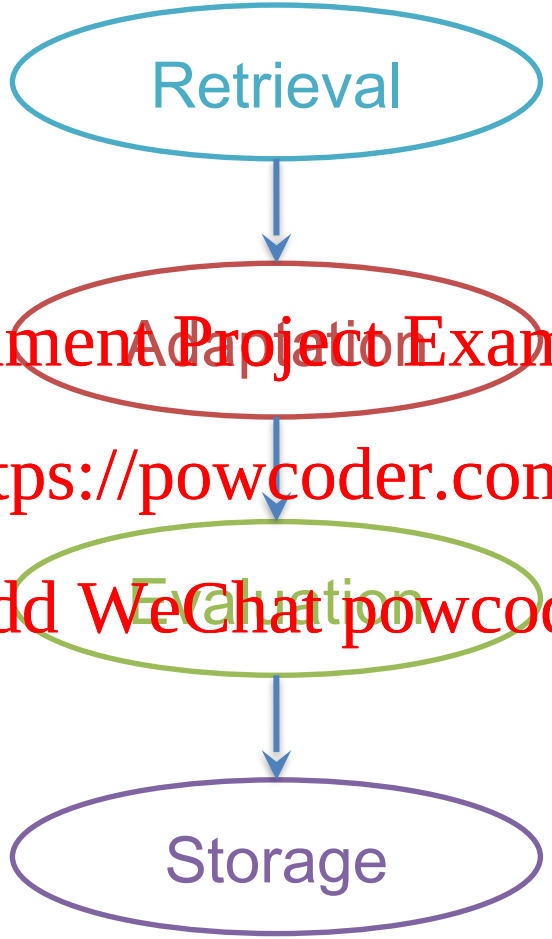

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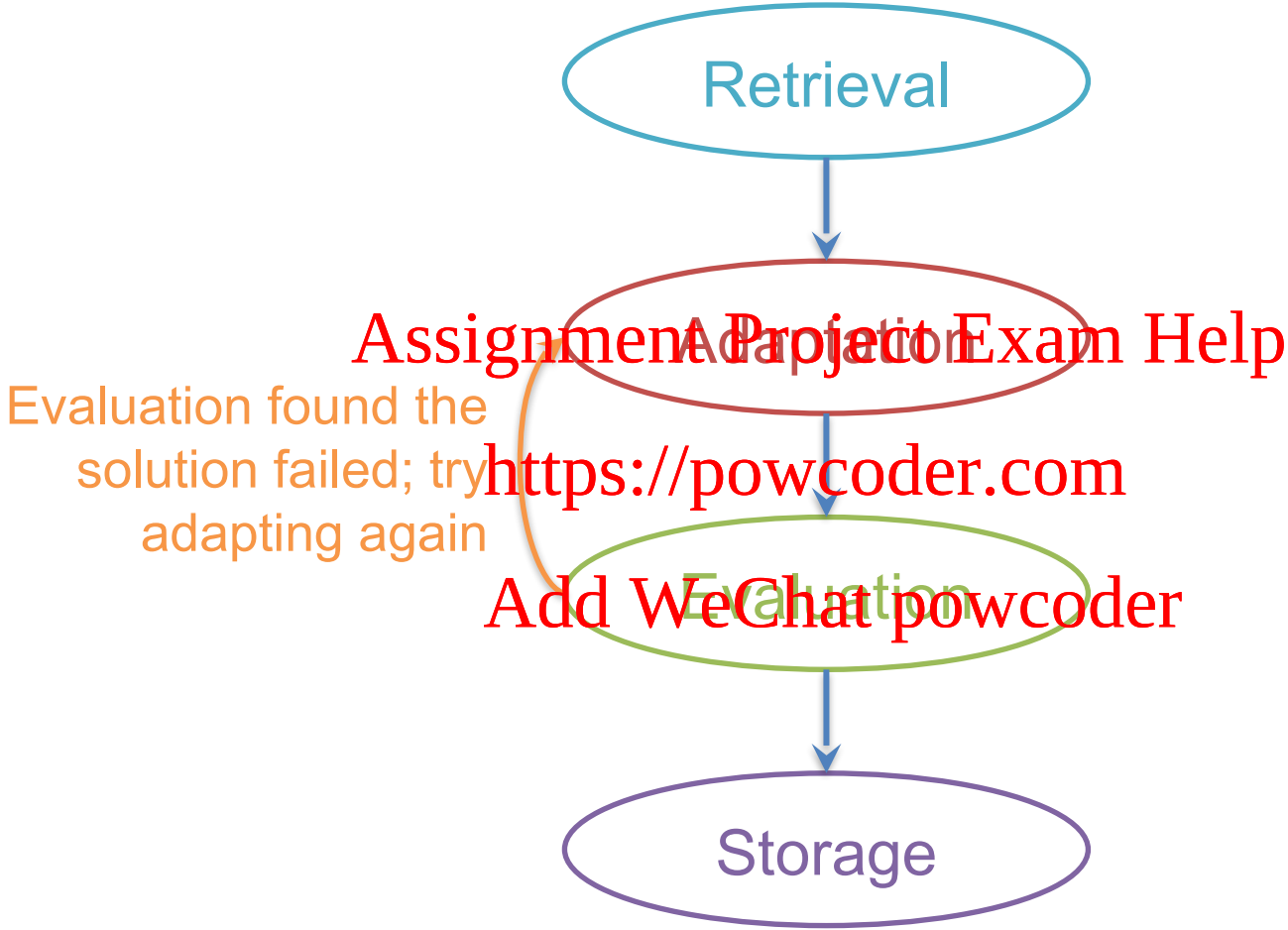

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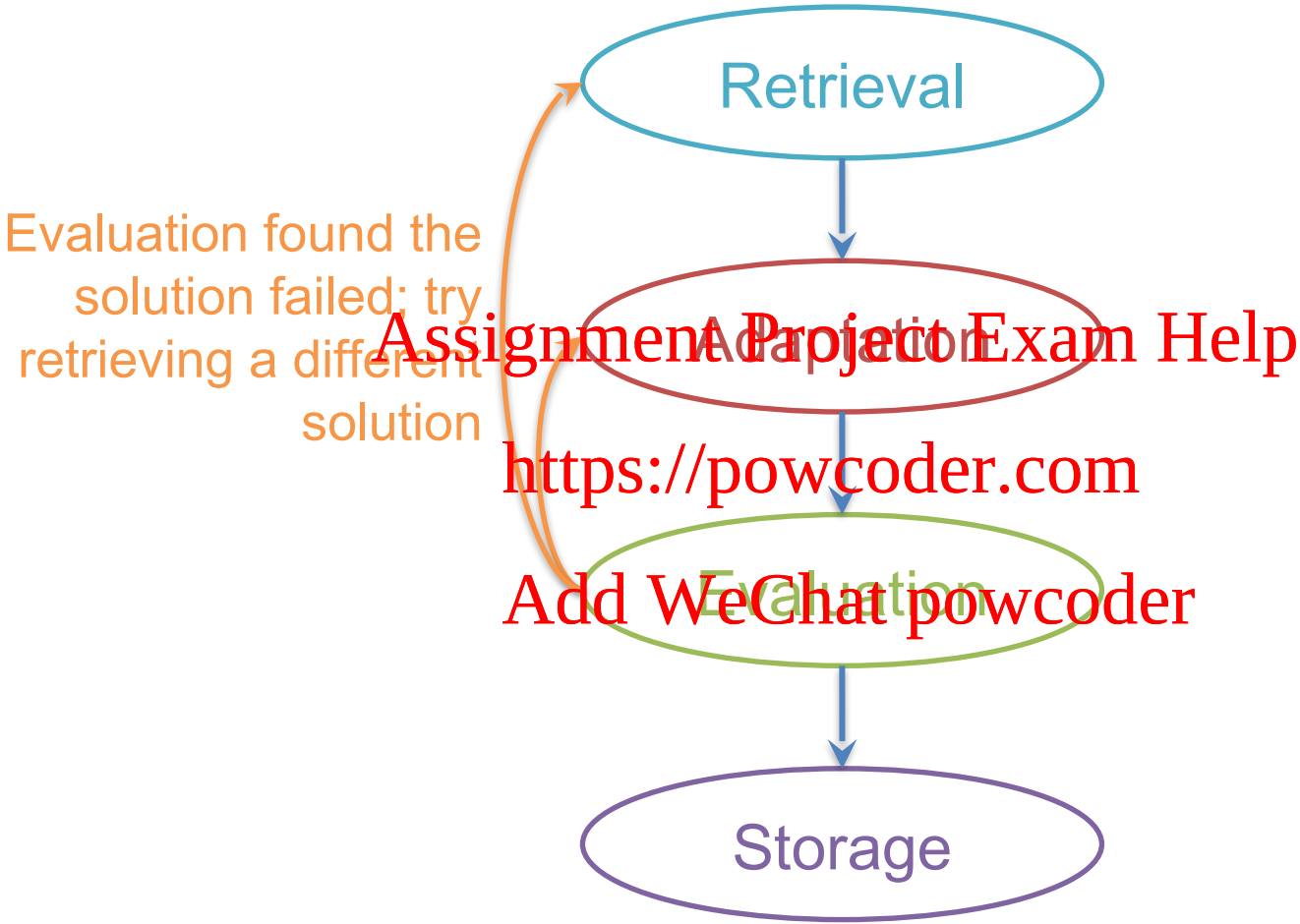

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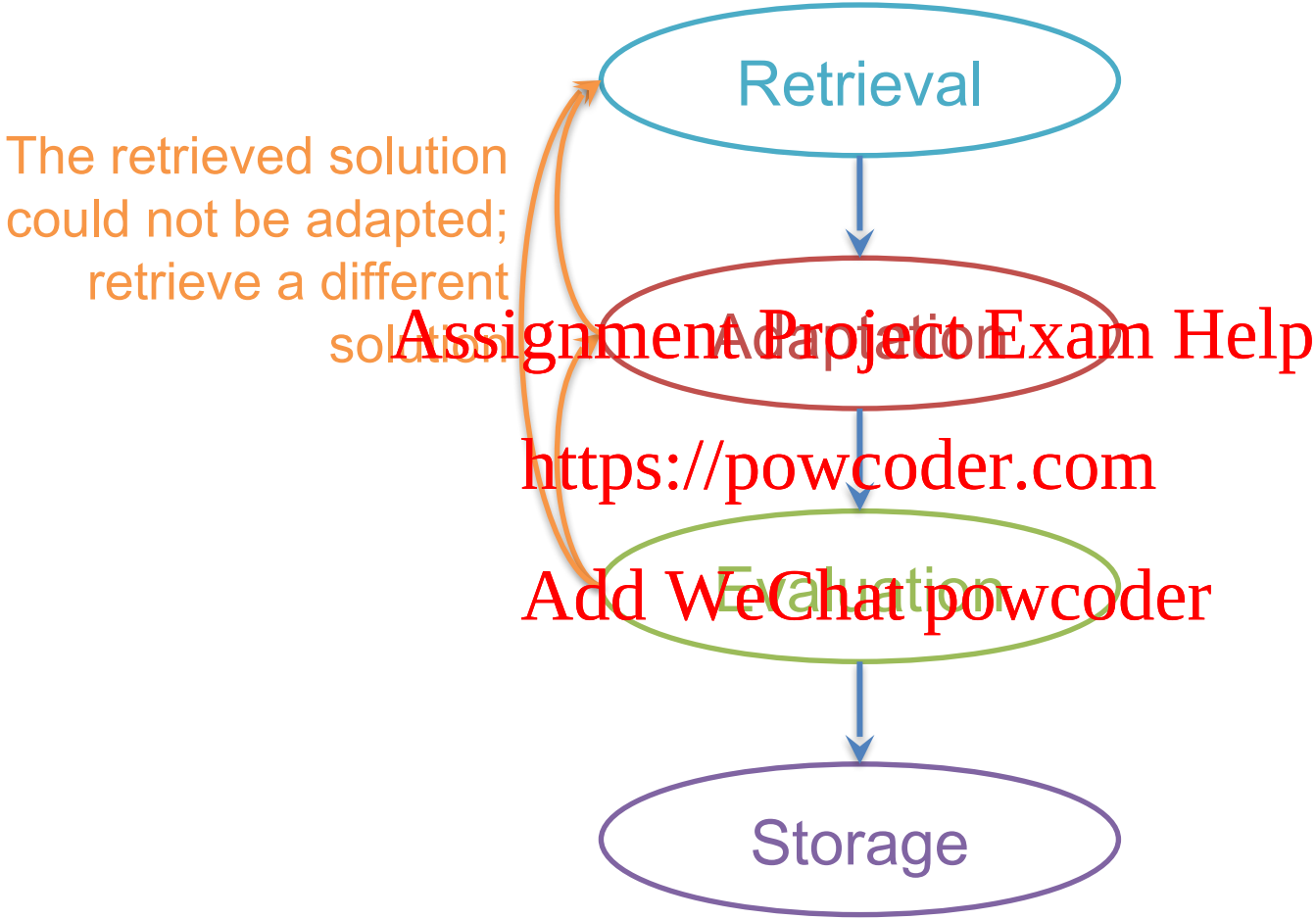

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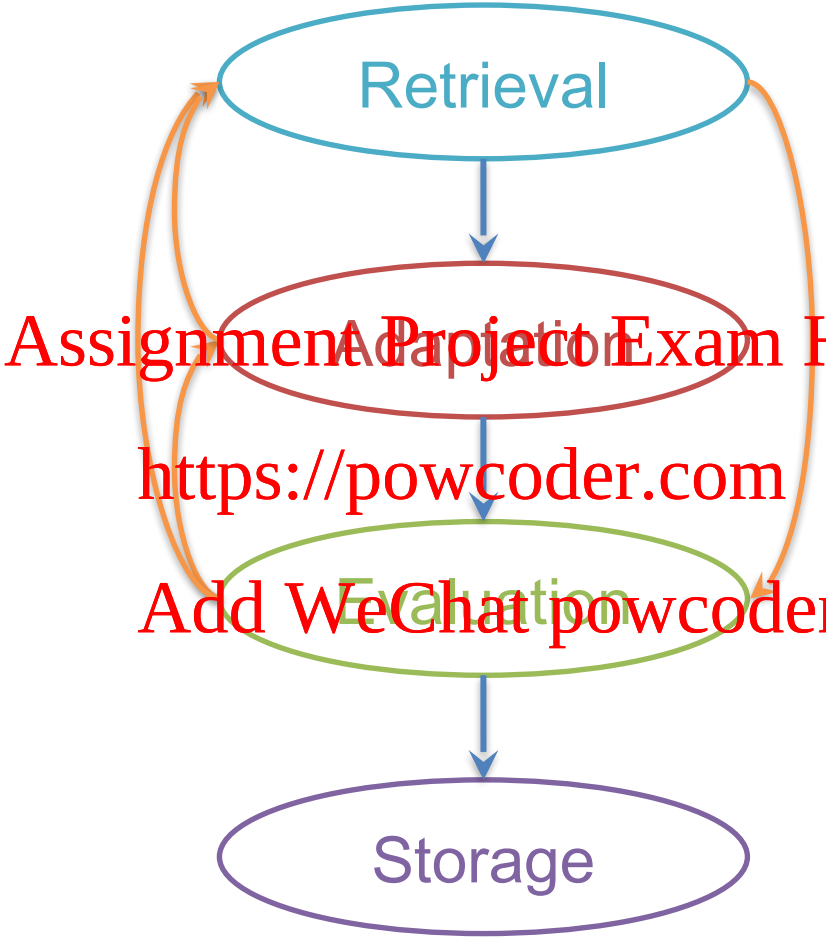

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Assignment

How would you use case-based reasoning to design an agent that could answer Raven's Progressive Matrices?

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To recap…

- Case adaptation
- Case evaluation
- Case storage
- Case retrieval revisited
- Advanced case-based reasoning

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