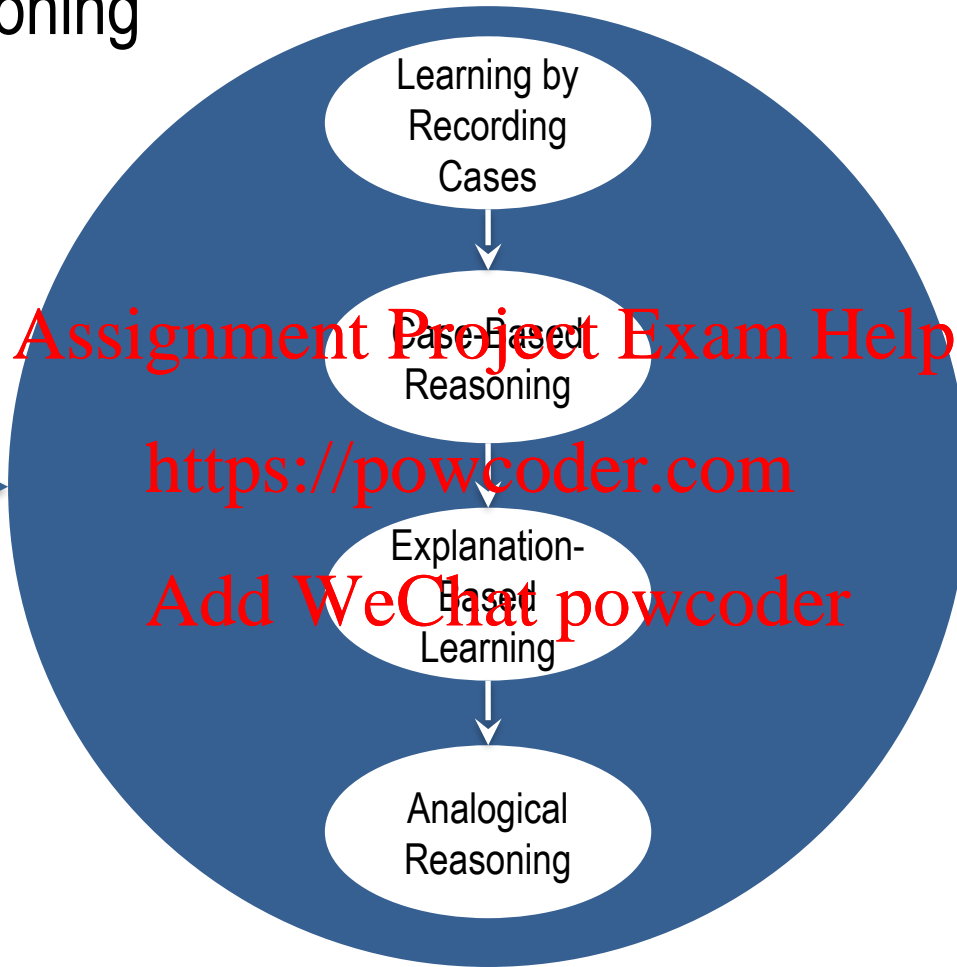


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Case-Based
<https://powcoder.com>
Reasoning

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Analogical Reasoning



Lesson Preview

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

Red

Orange

Blue

Black

<https://powcoder.com>

Green

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Purple

What color is this block?

Assignment Project Exam Help?

Orange

Block World

Red

Orange

Blue

Black

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Green

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Purple

What color is this block?

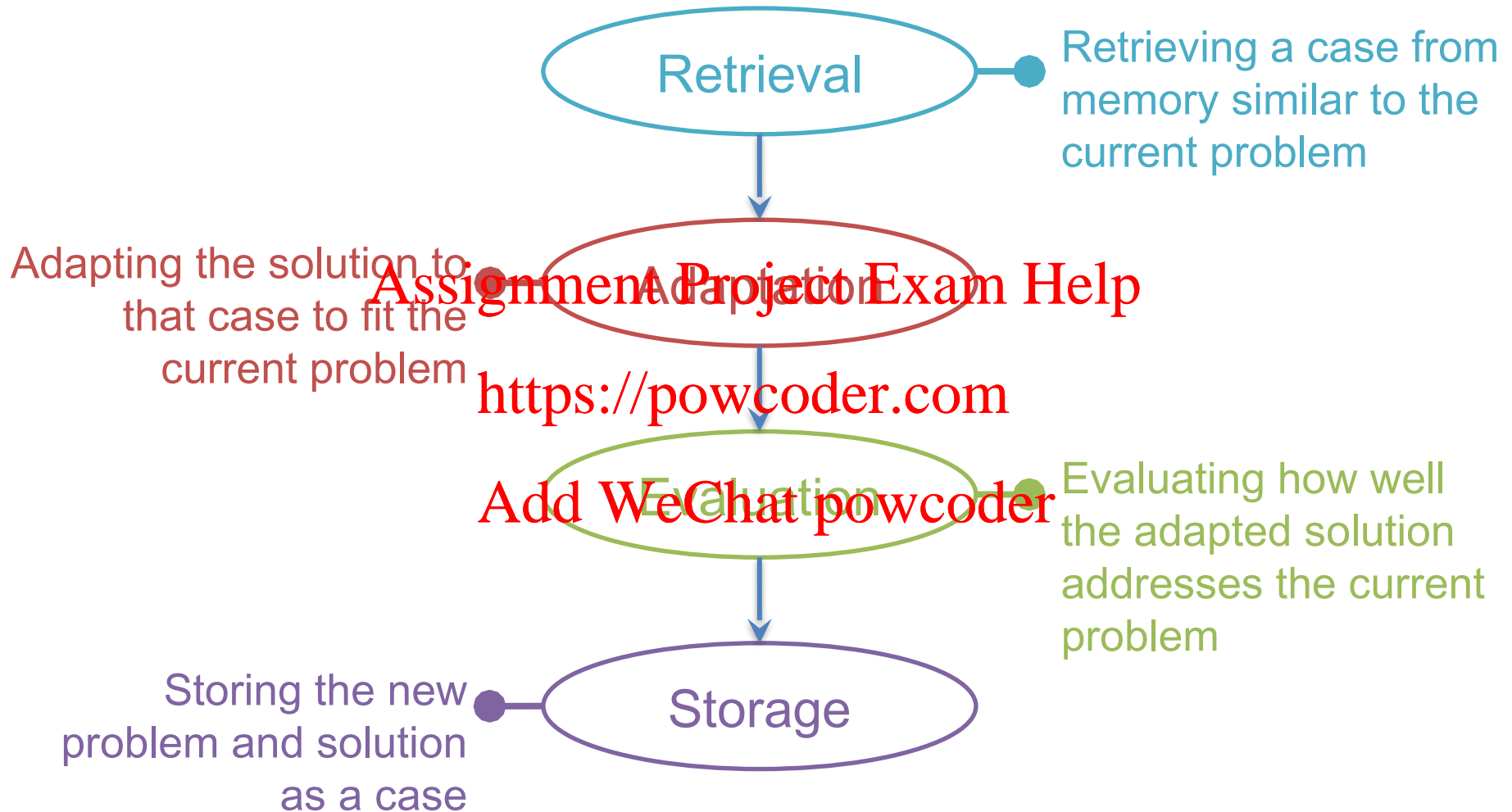
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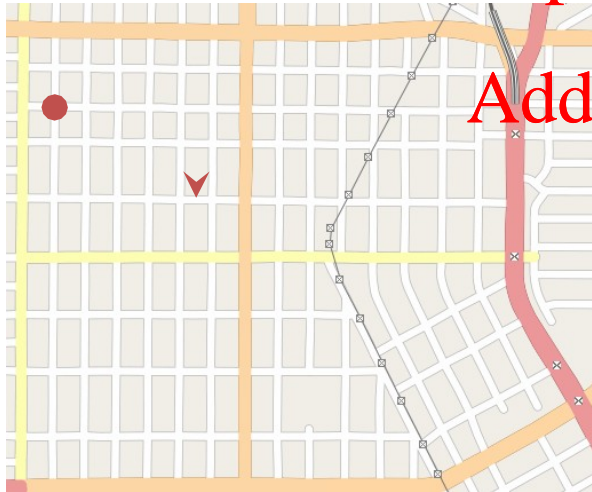
Assumptions of Case-Based Reasoning

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

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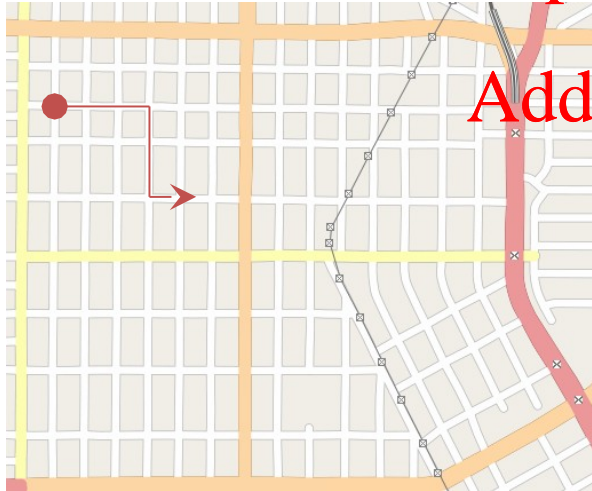
Assumptions of Case-Based Reasoning

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

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Retrieving a case from memory similar to the current problem

Adapting the solution to that case to fit the current problem



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Evaluating how well the adapted solution addresses the current problem

Storing the new problem and solution as a case





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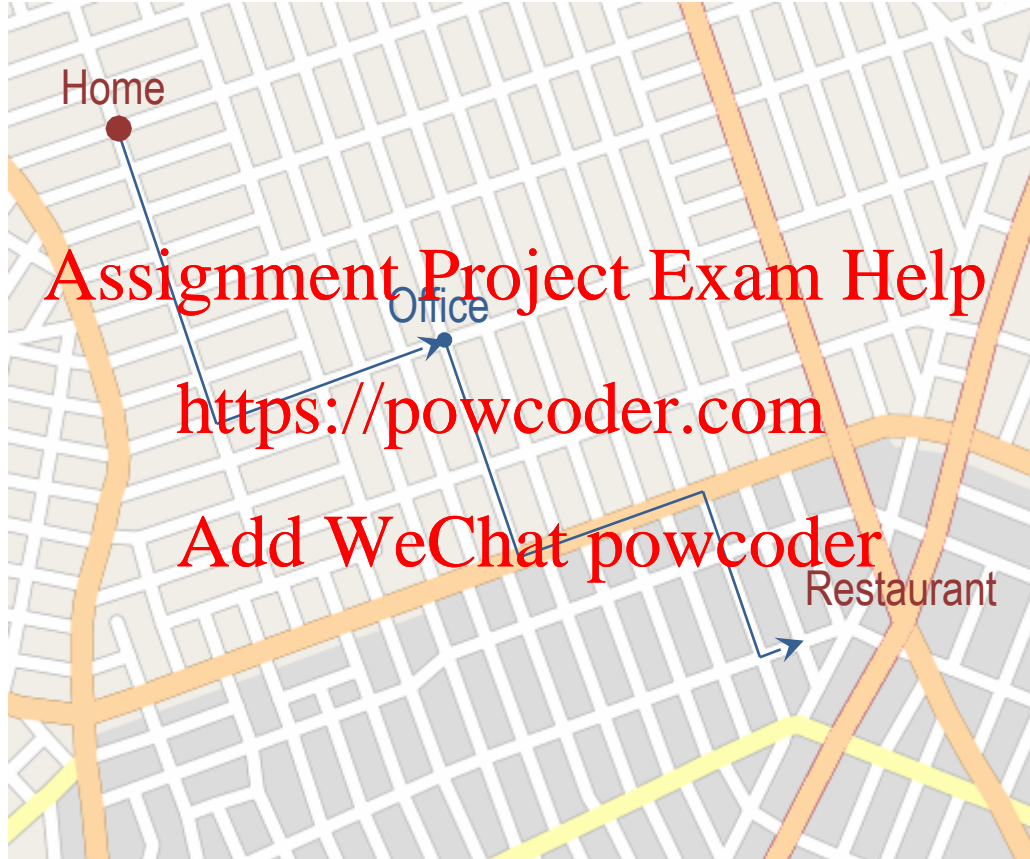
Restaurant

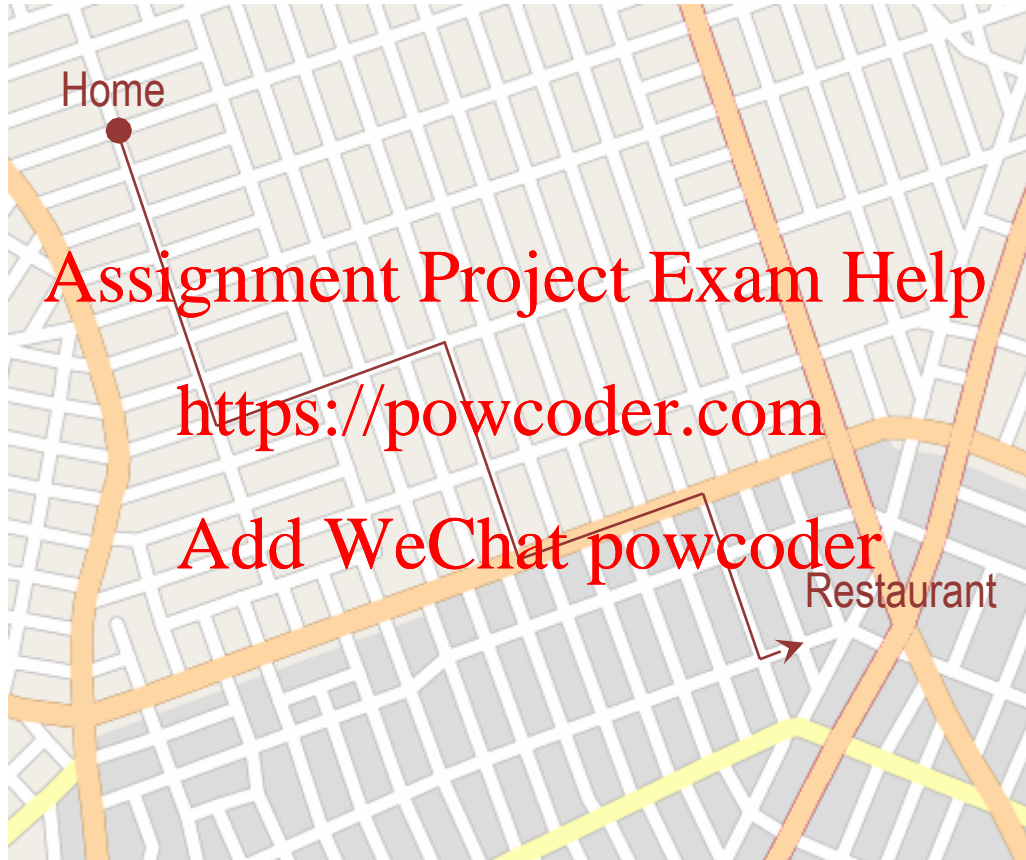


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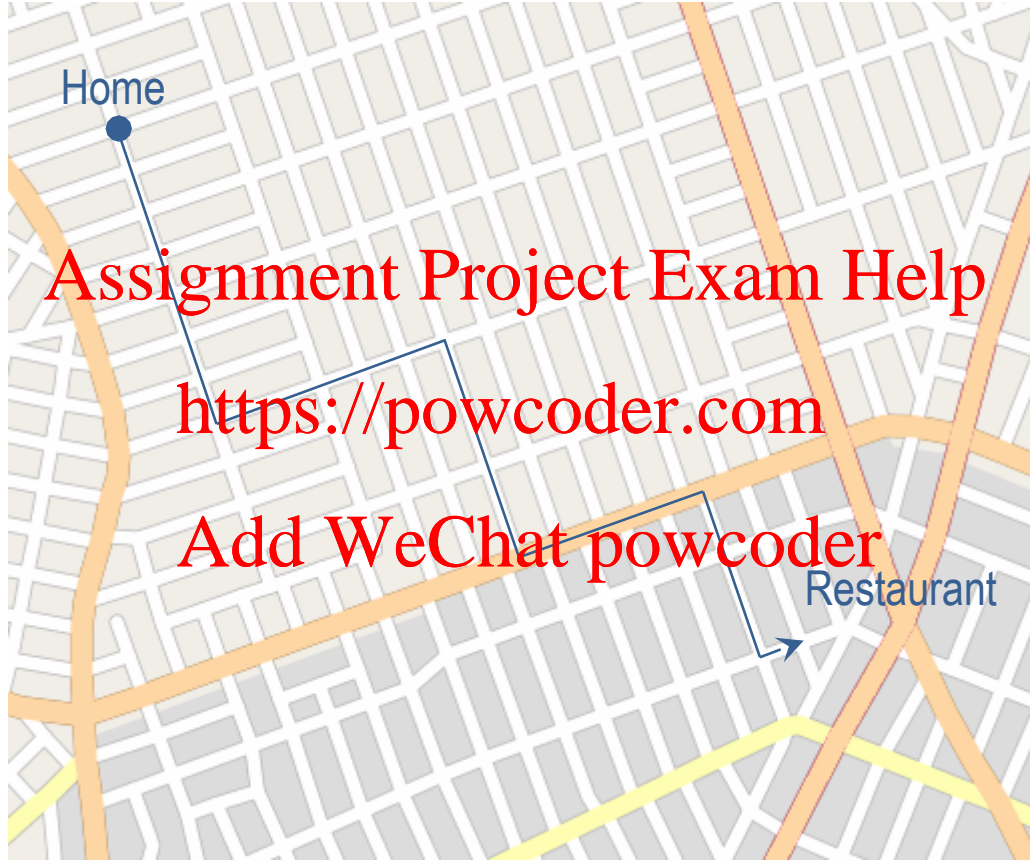


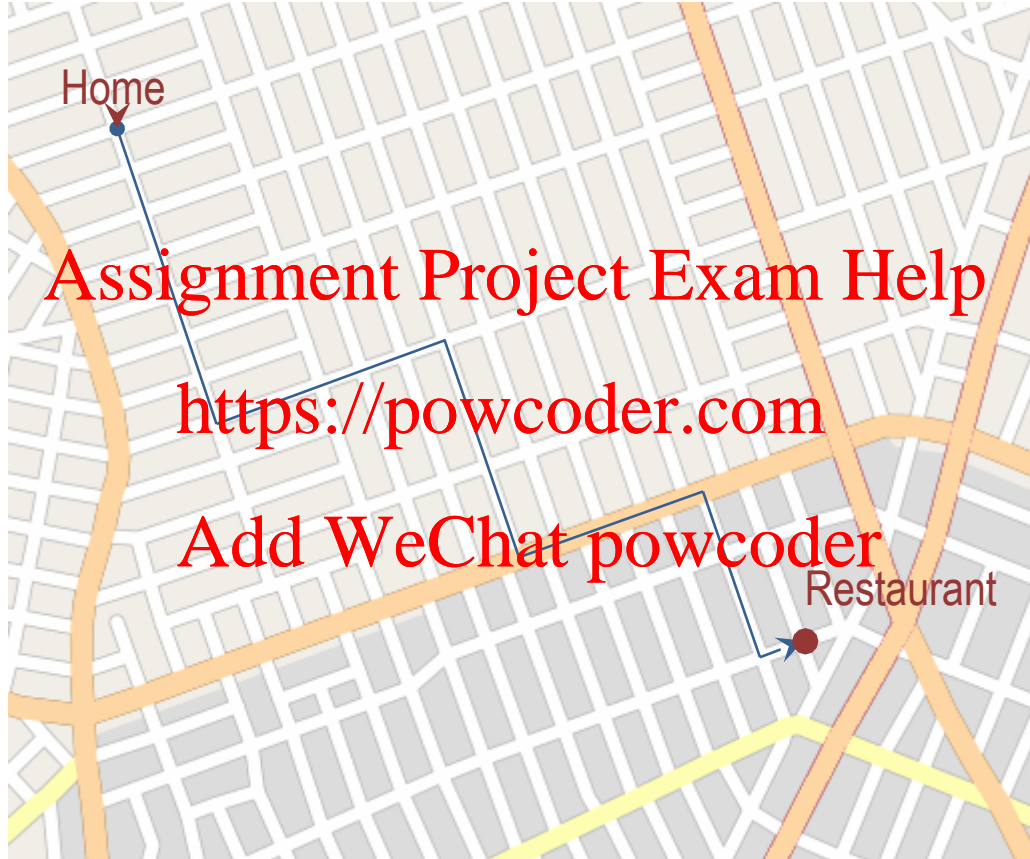
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Retrieving a case from memory similar to the current problem

Adapting the solution to that case to fit the current problem

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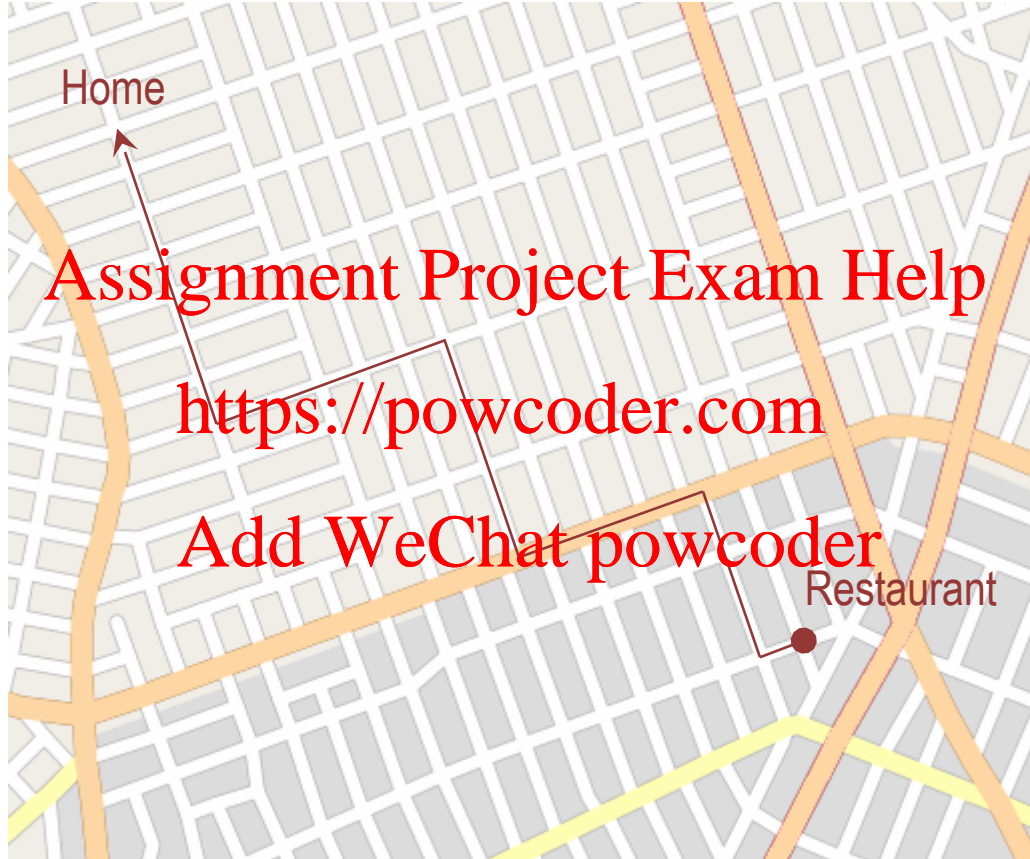
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Evaluating how well the adapted solution addresses the current problem

Storing the new problem and solution as a case





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Retrieving a case from memory similar to the current problem

Adapting the solution to that case to fit the current problem

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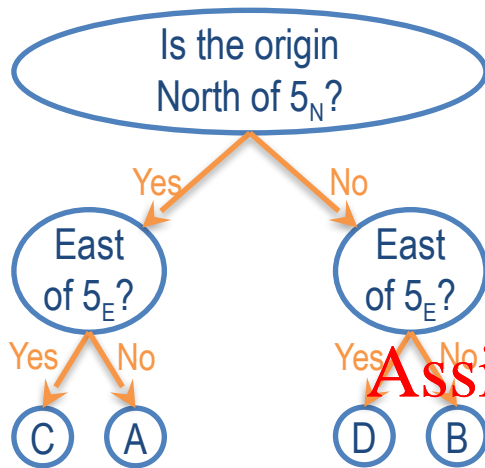
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Evaluating how well the adapted solution addresses the current problem

Storing the new problem and solution as a case

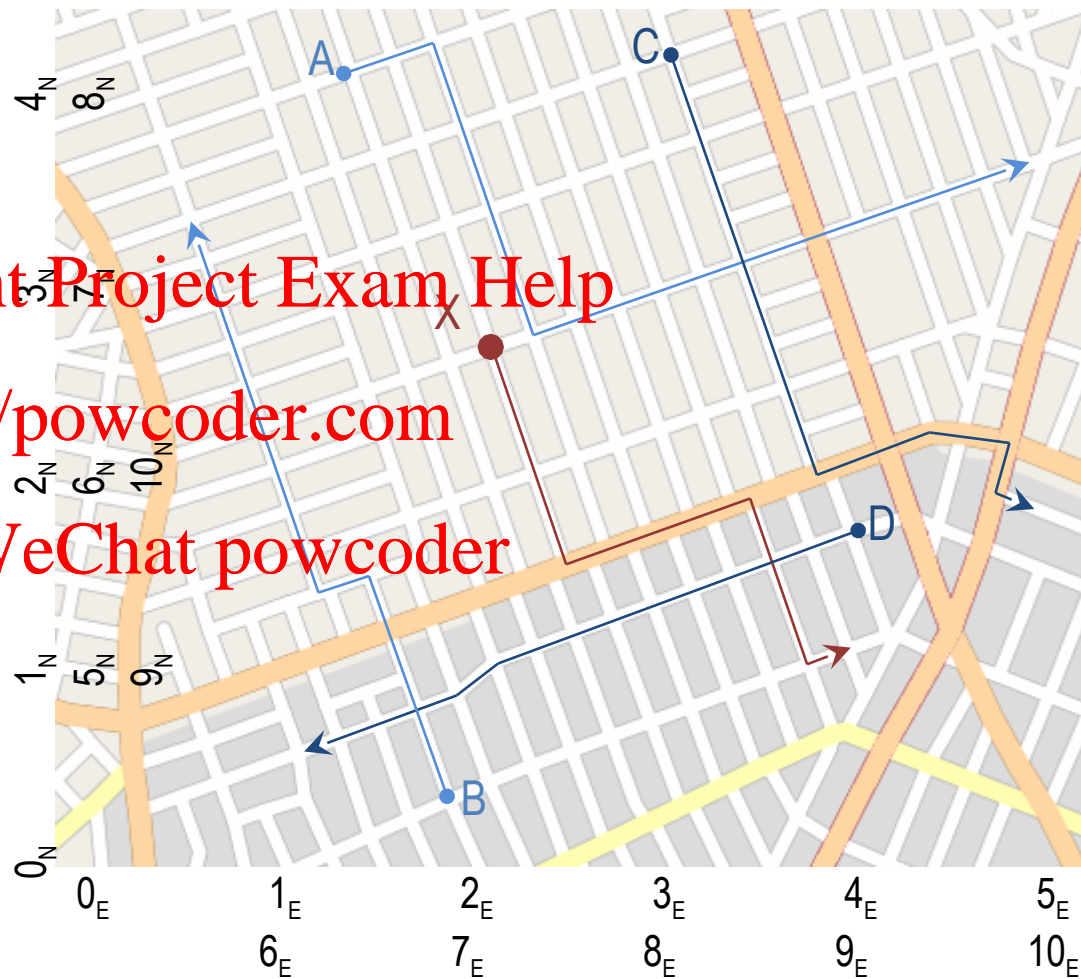


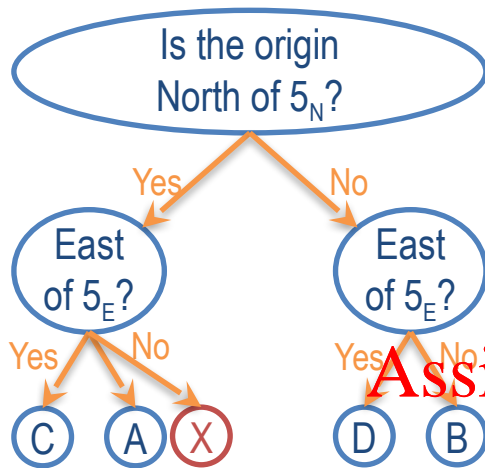


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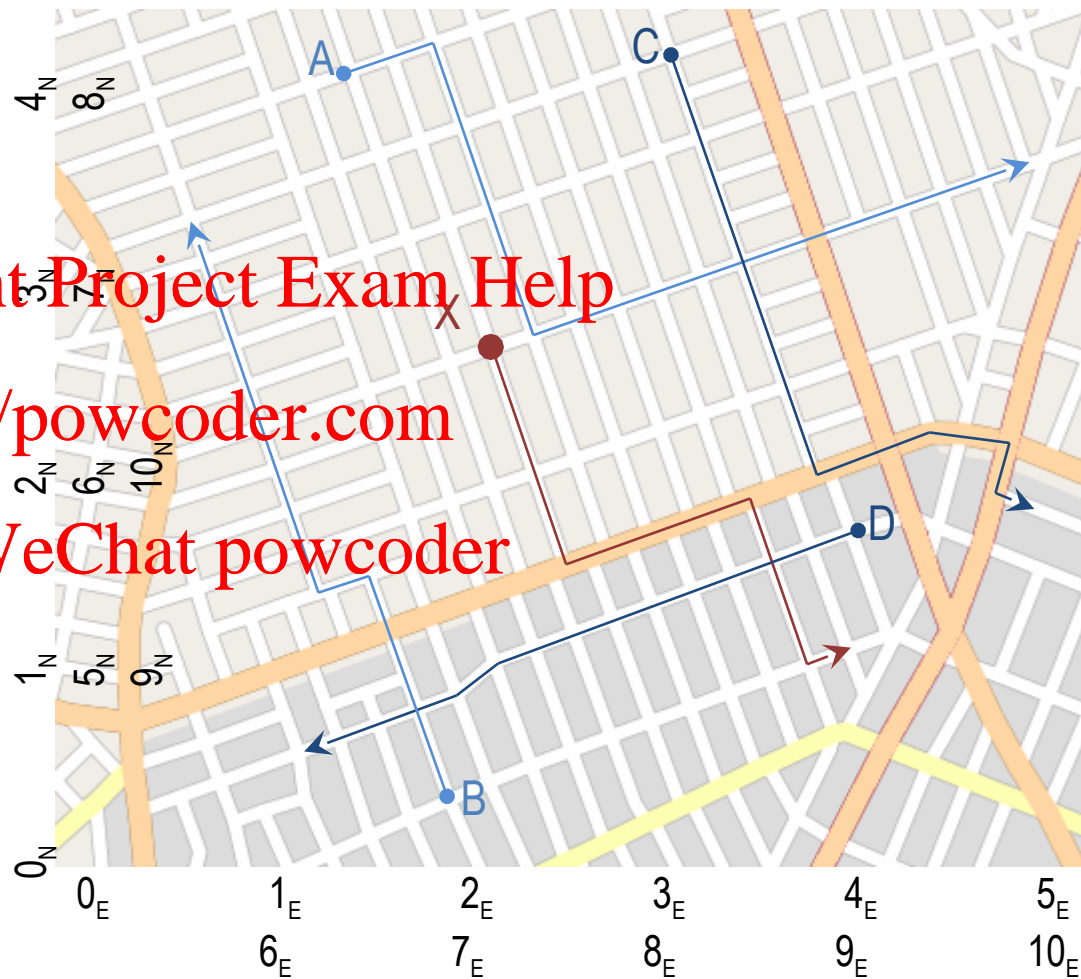


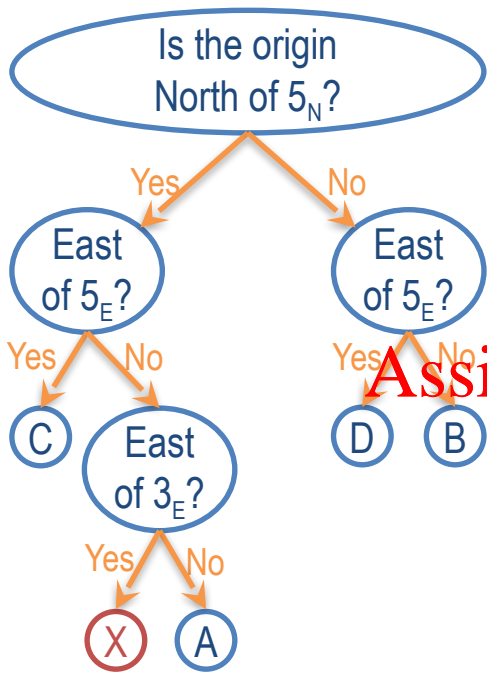


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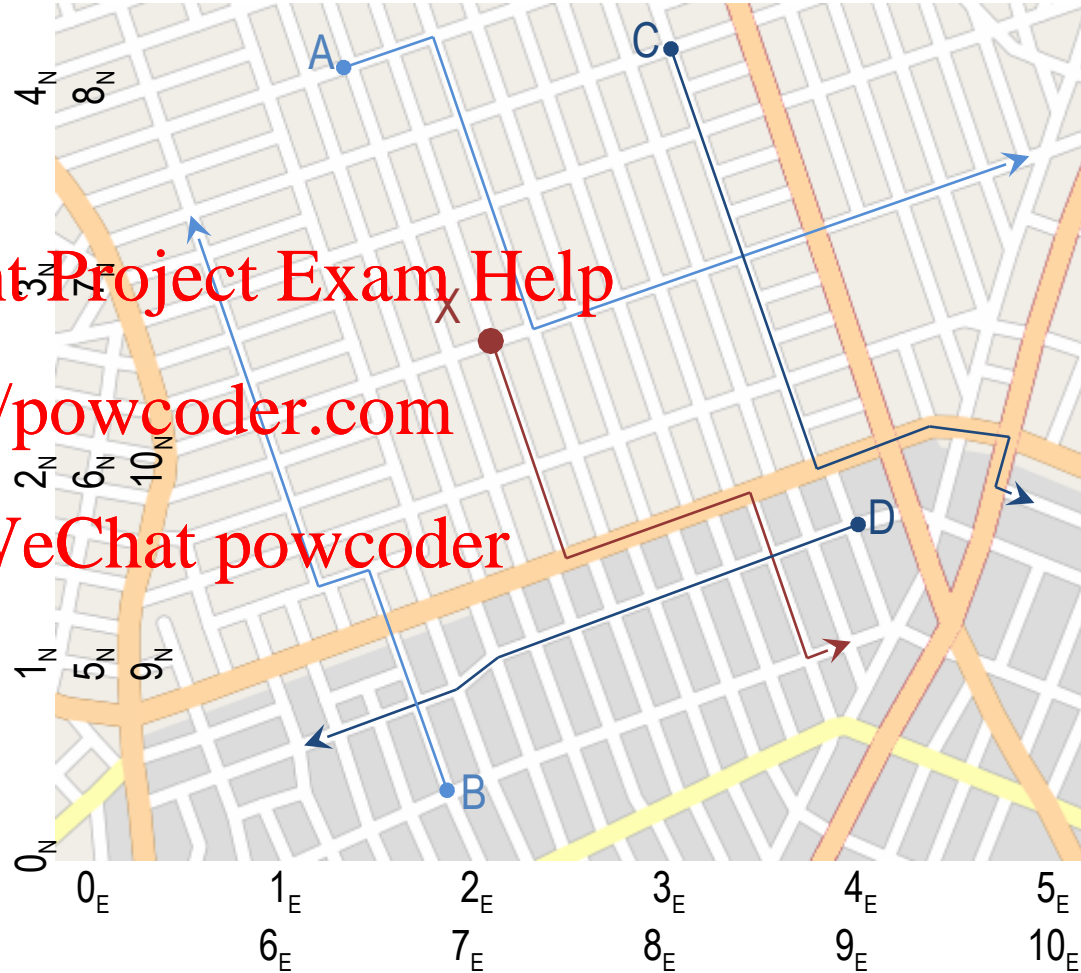


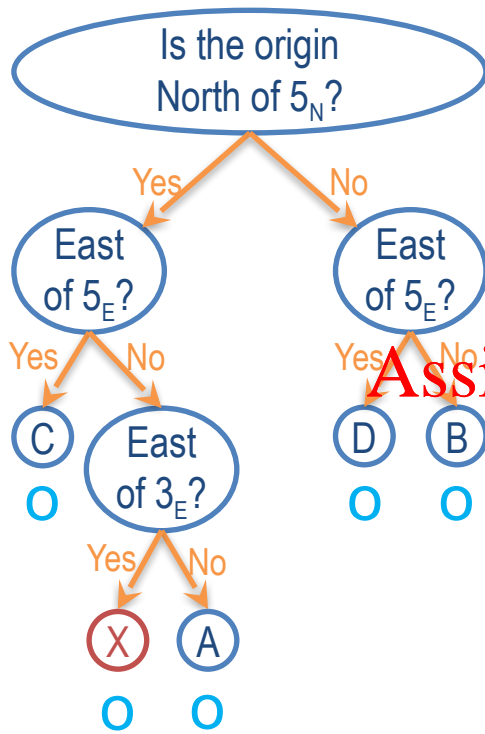


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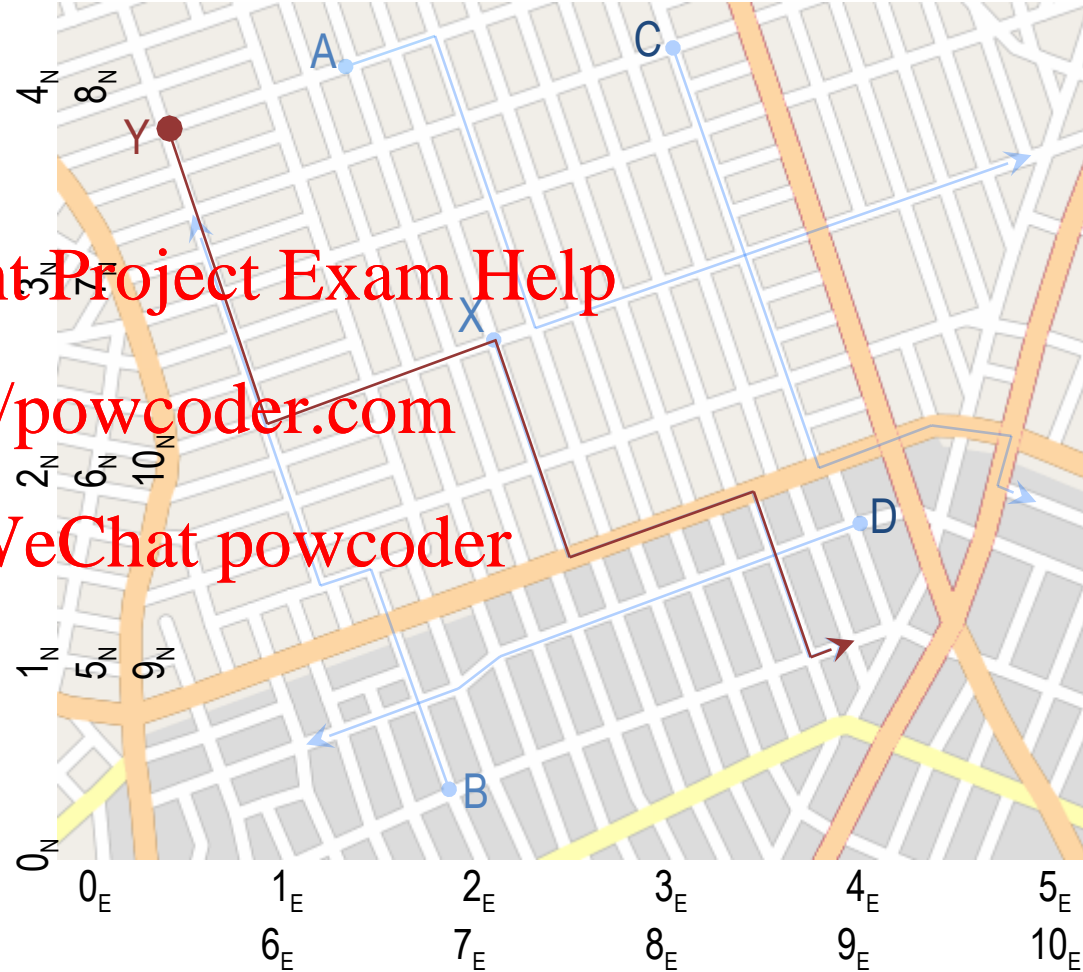
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Under which branch should case Y be stored?

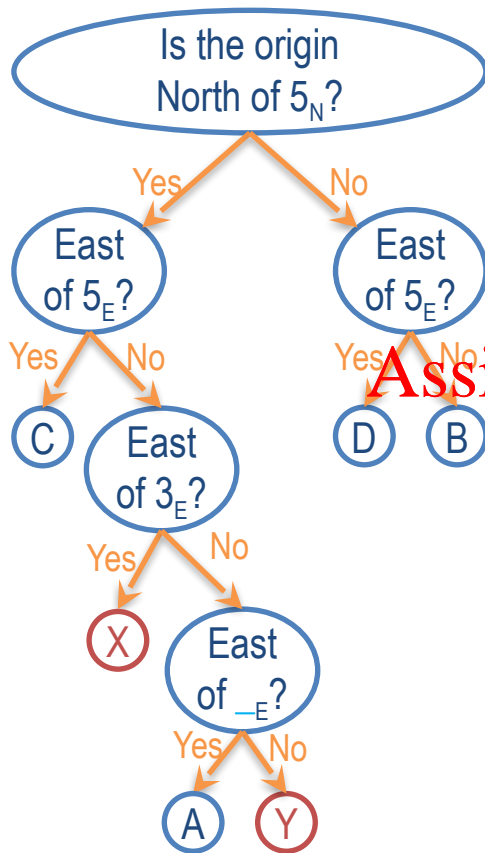


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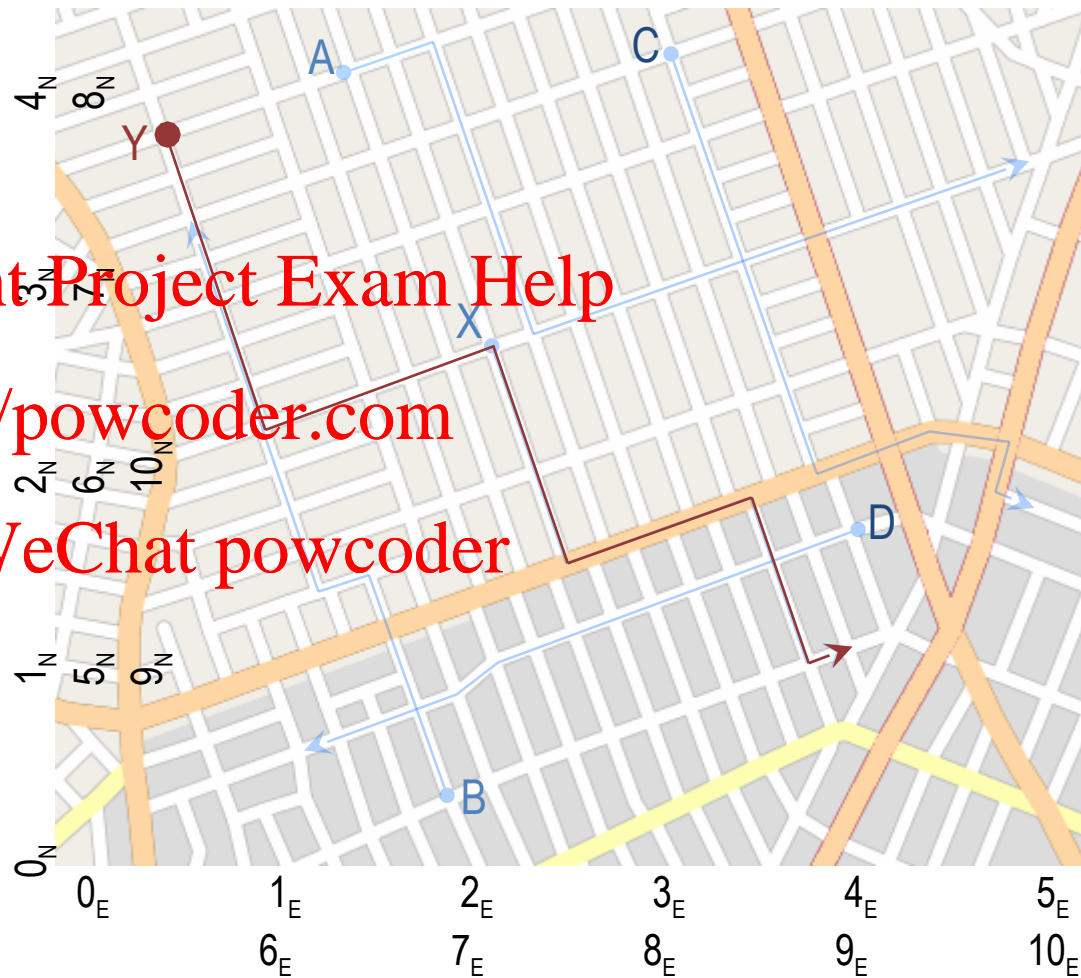


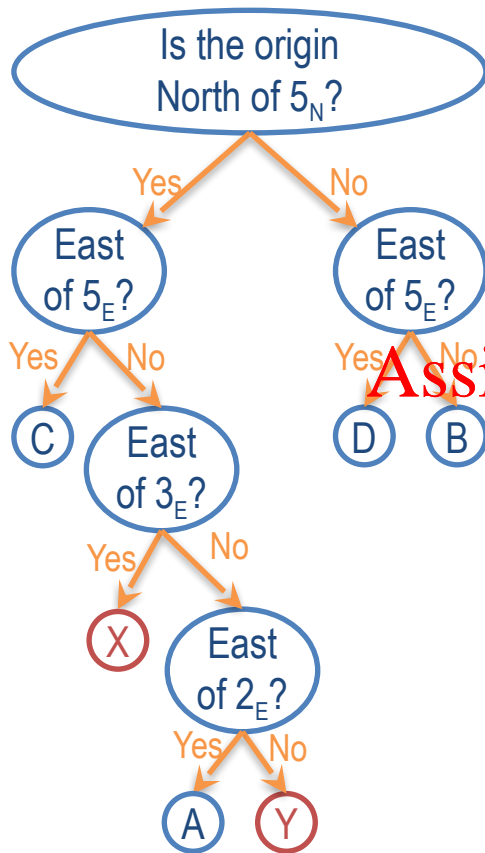
Where should this branch be divided for maximum differentiation?

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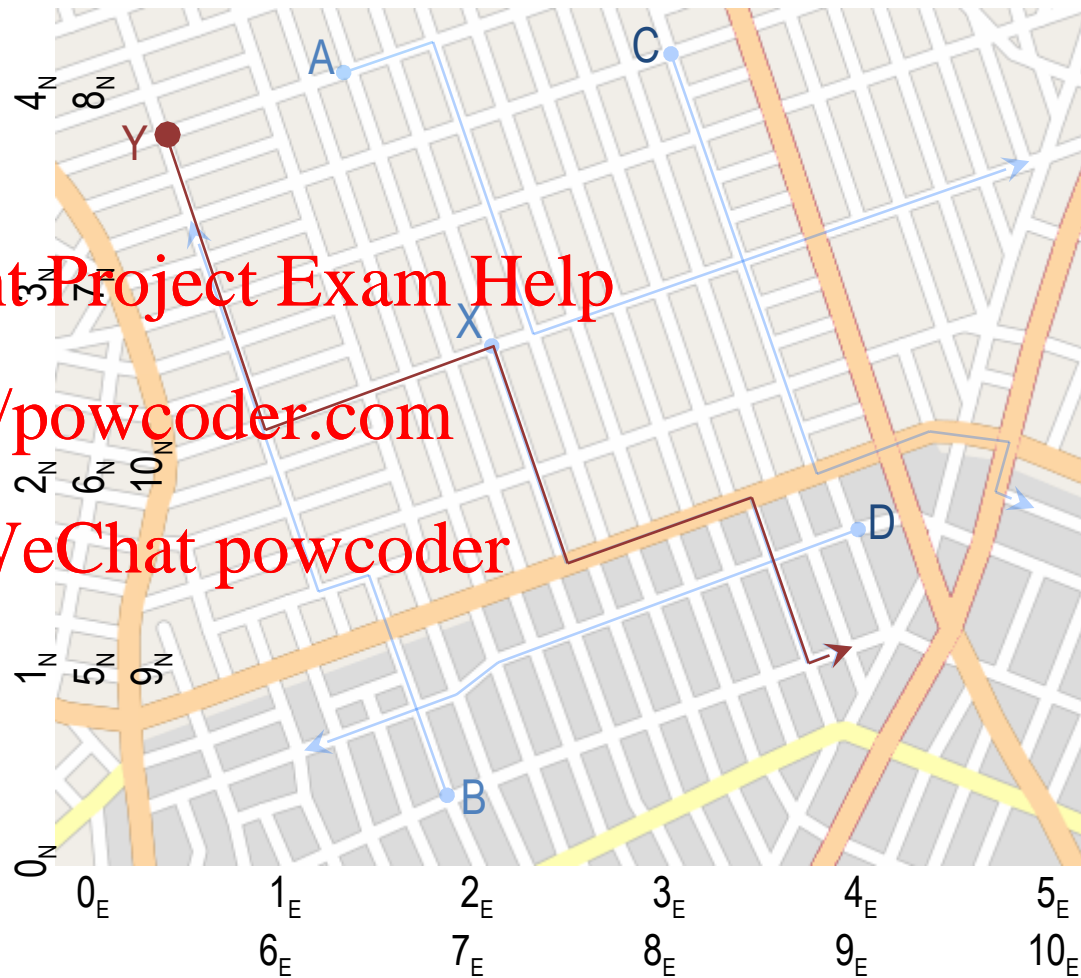


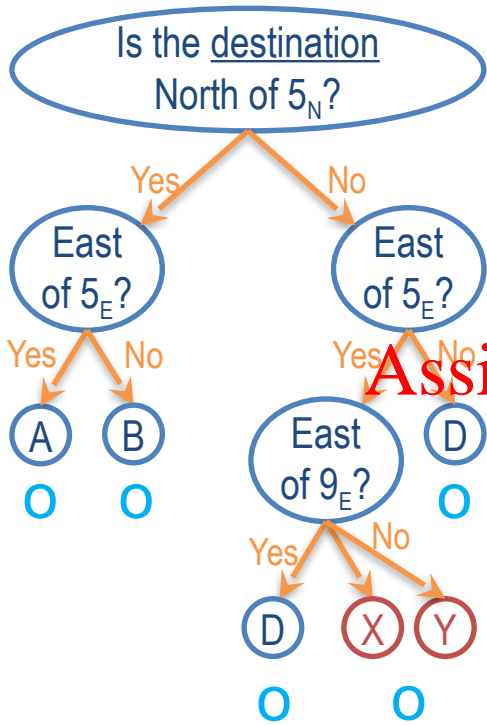
Where should this branch be divided for maximum differentiation?

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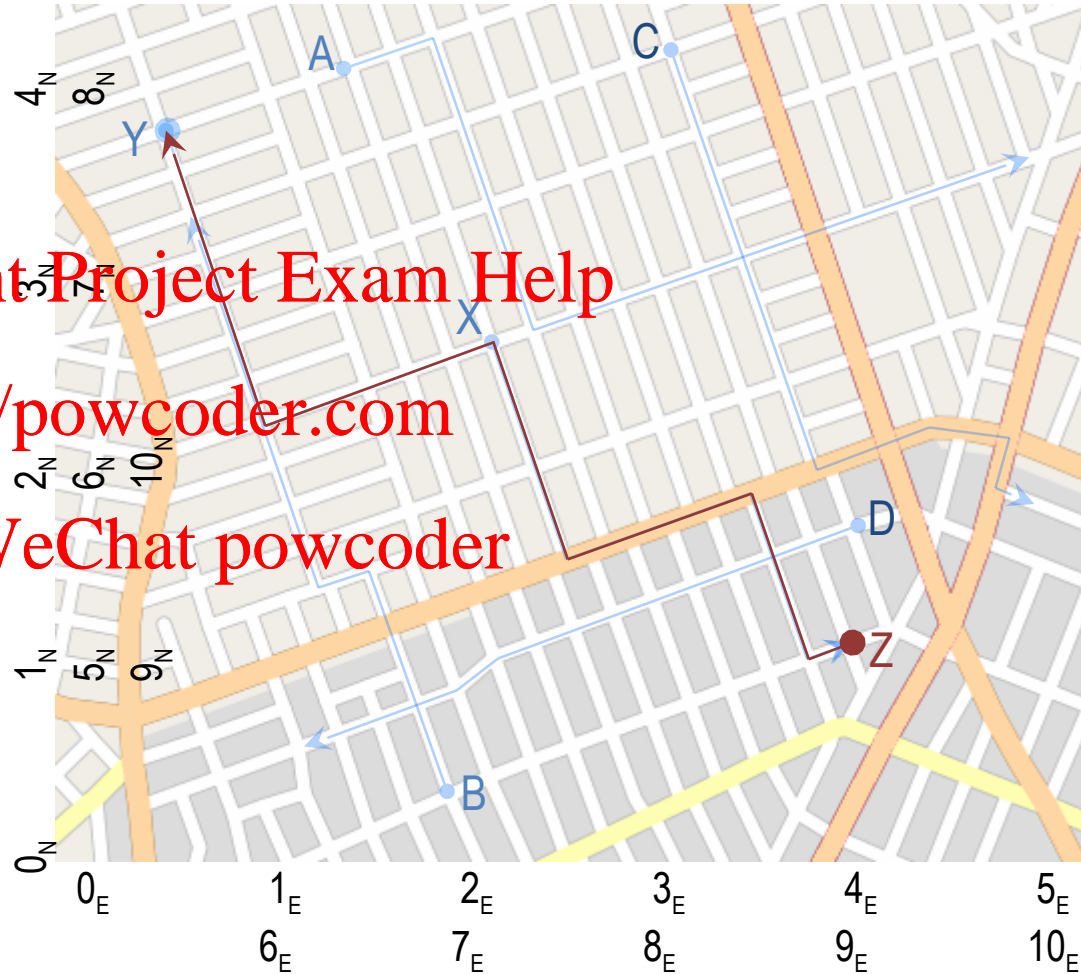




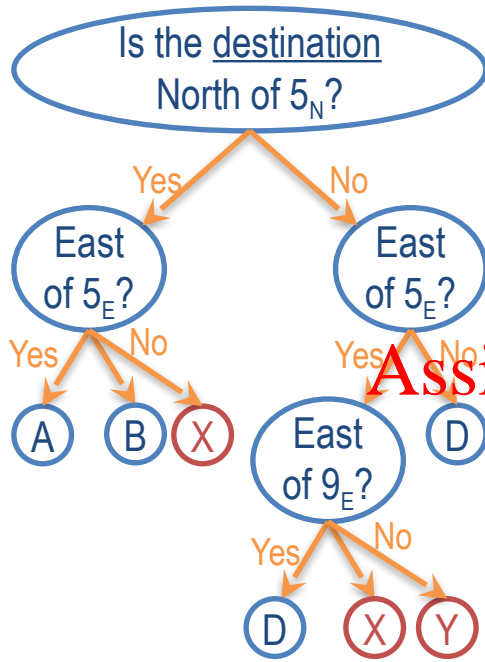
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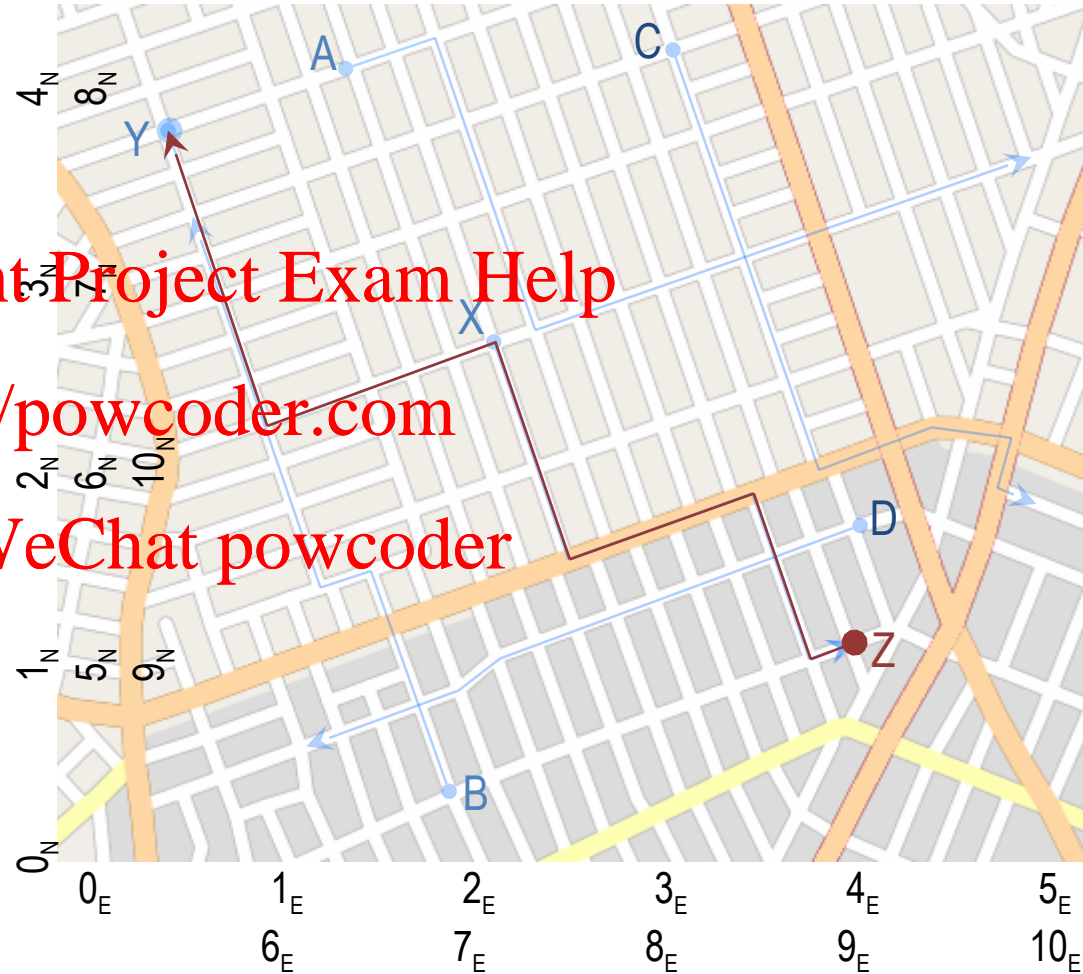
Under which branch will case Z be stored?



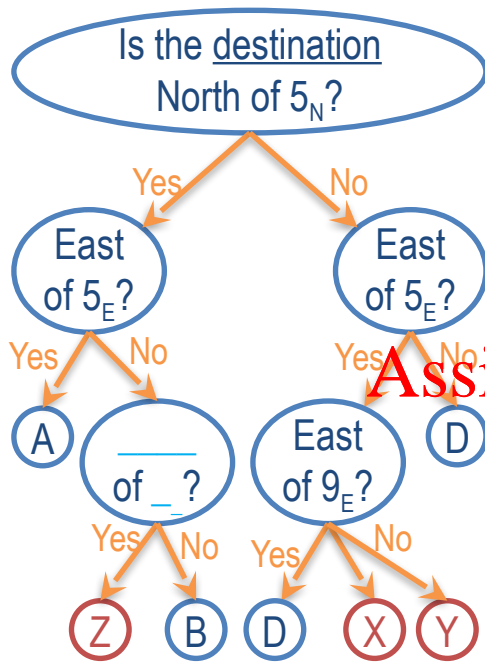
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Under which branch will case Z be stored?

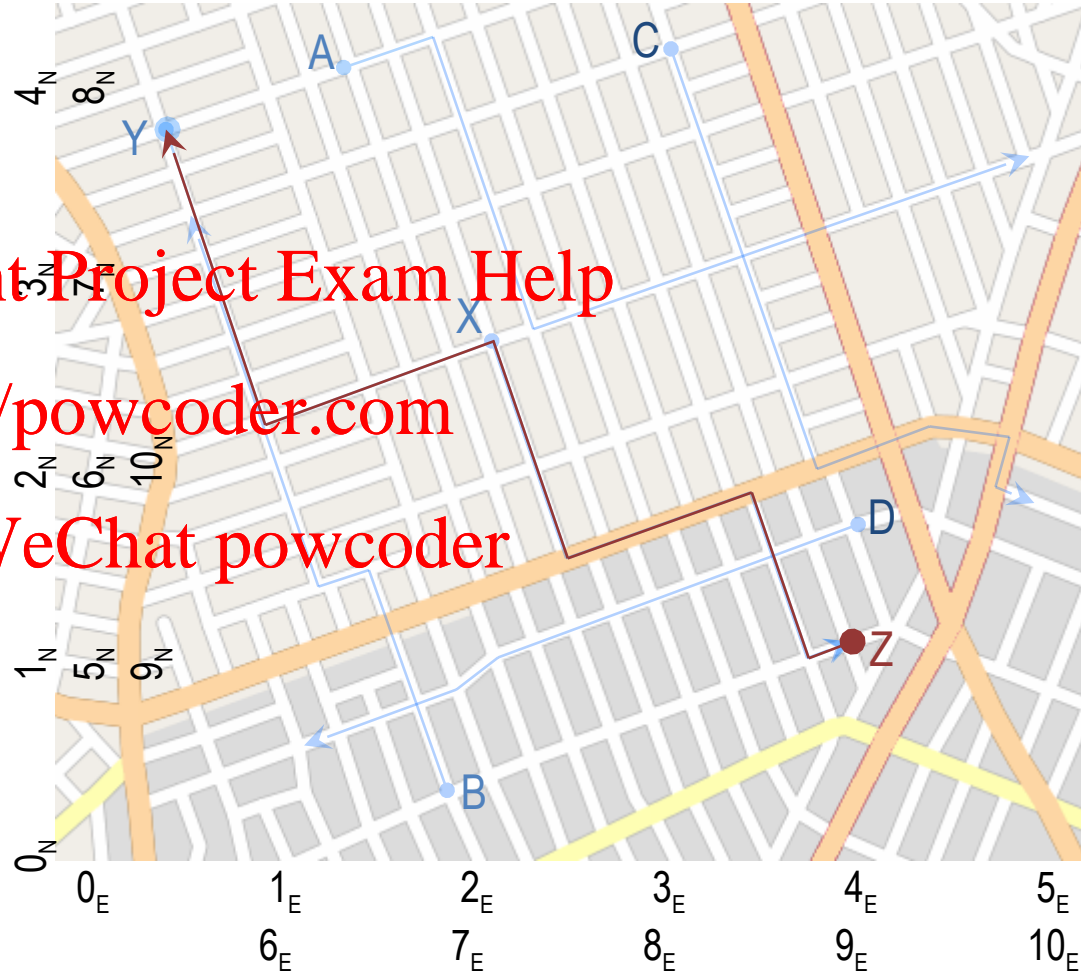


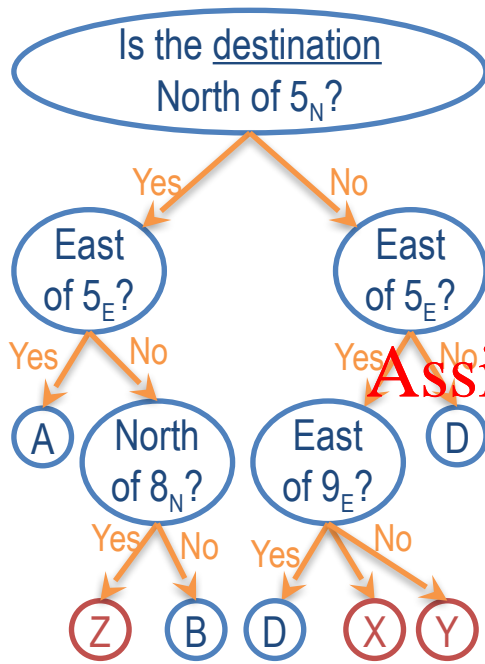
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Where should this branch be divided for maximum differentiation?



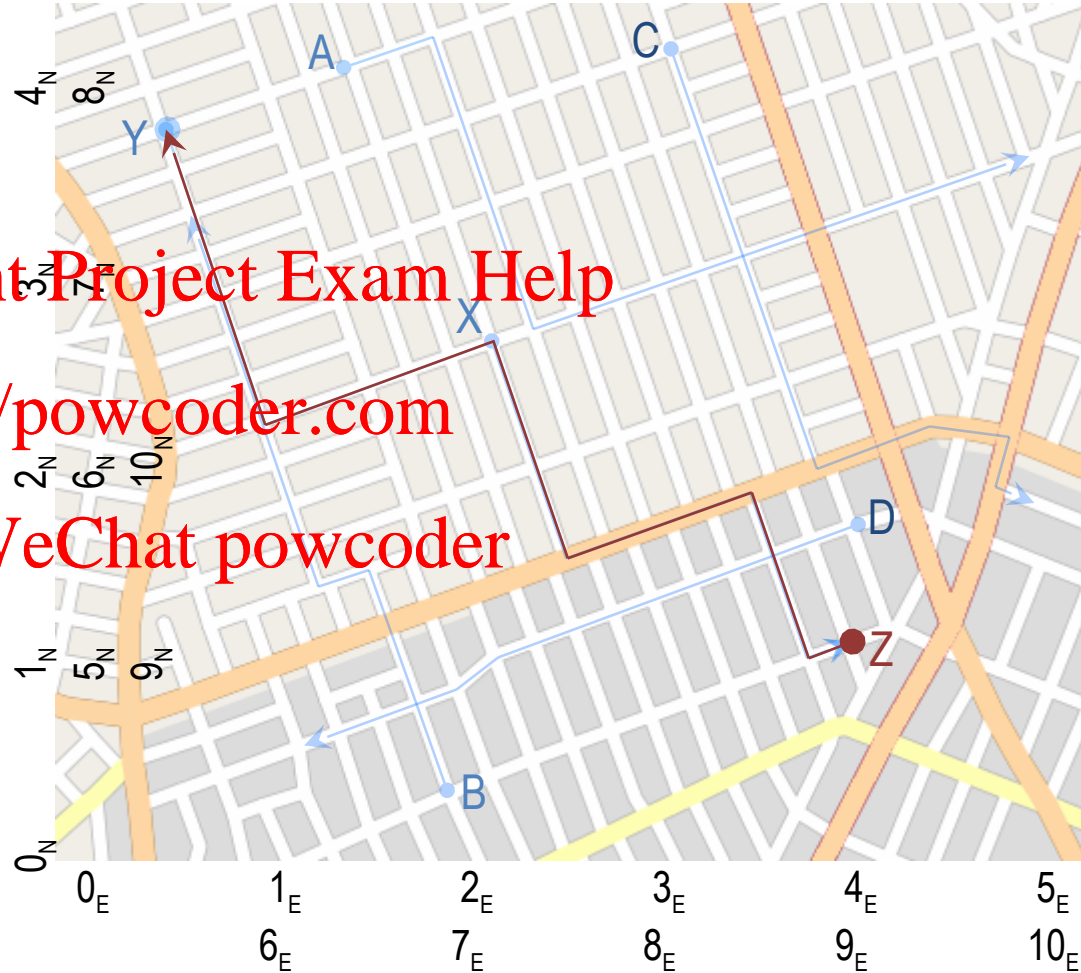


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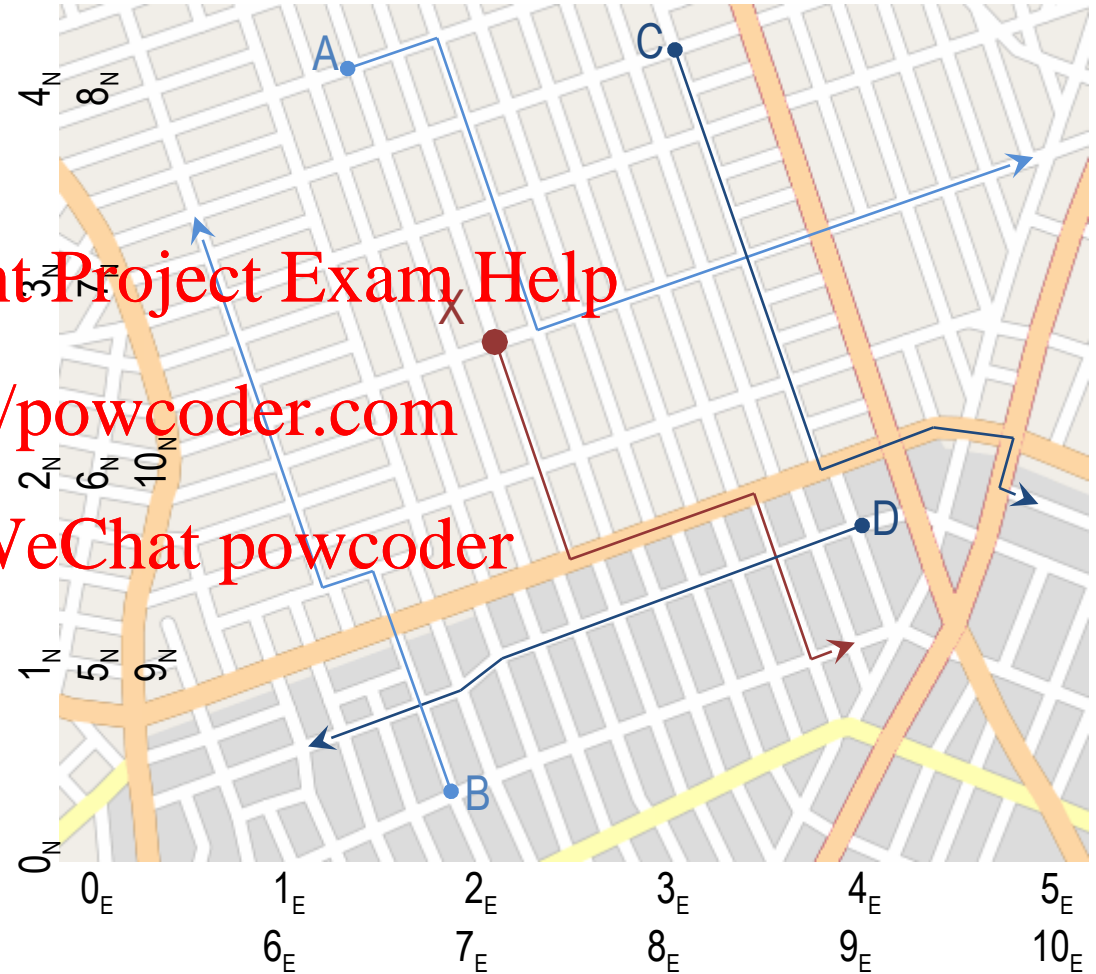
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Where should this branch be divided for maximum differentiation?



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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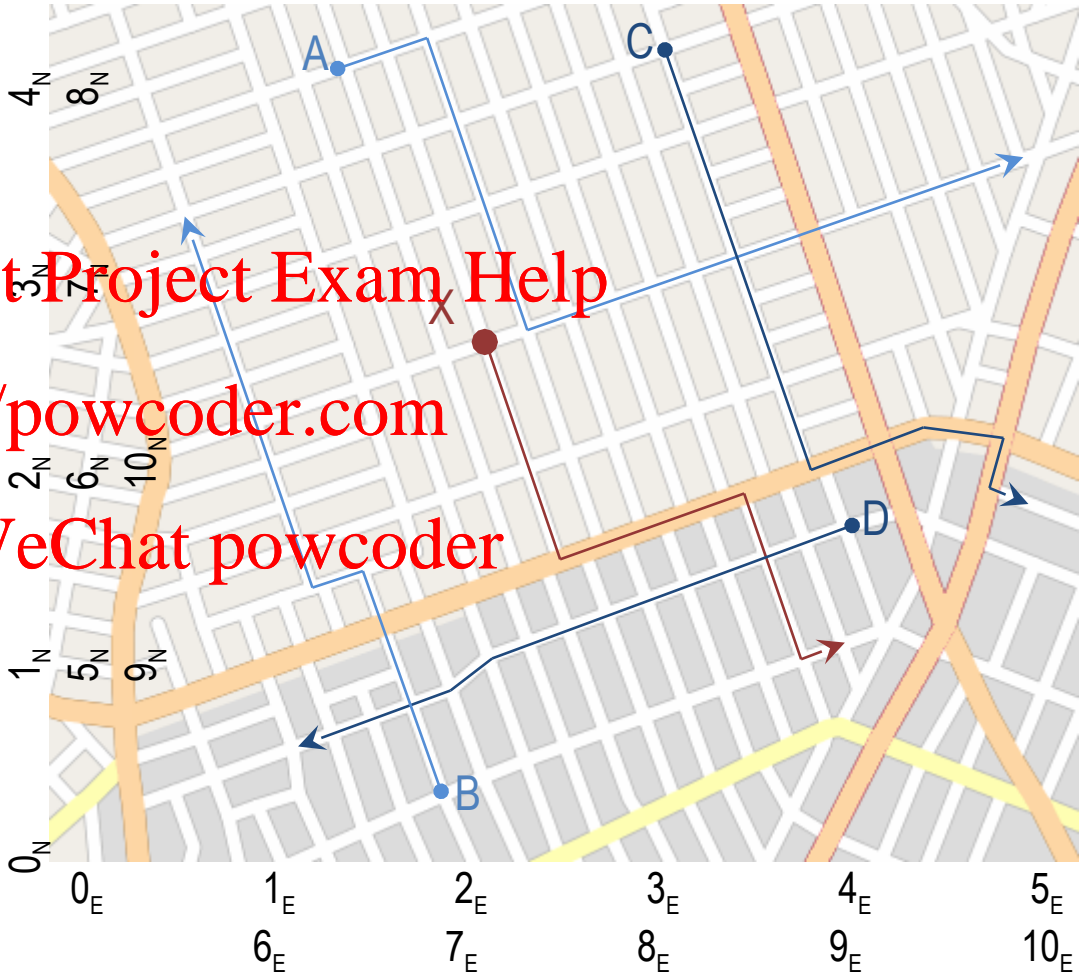


Route	Origin _x	Origin _y
A	3 _E	9 _N
B	4 _E	1 _N
C	7 _E	9 _N
D	8 _E	4 _N
X	4 _E	6 _N

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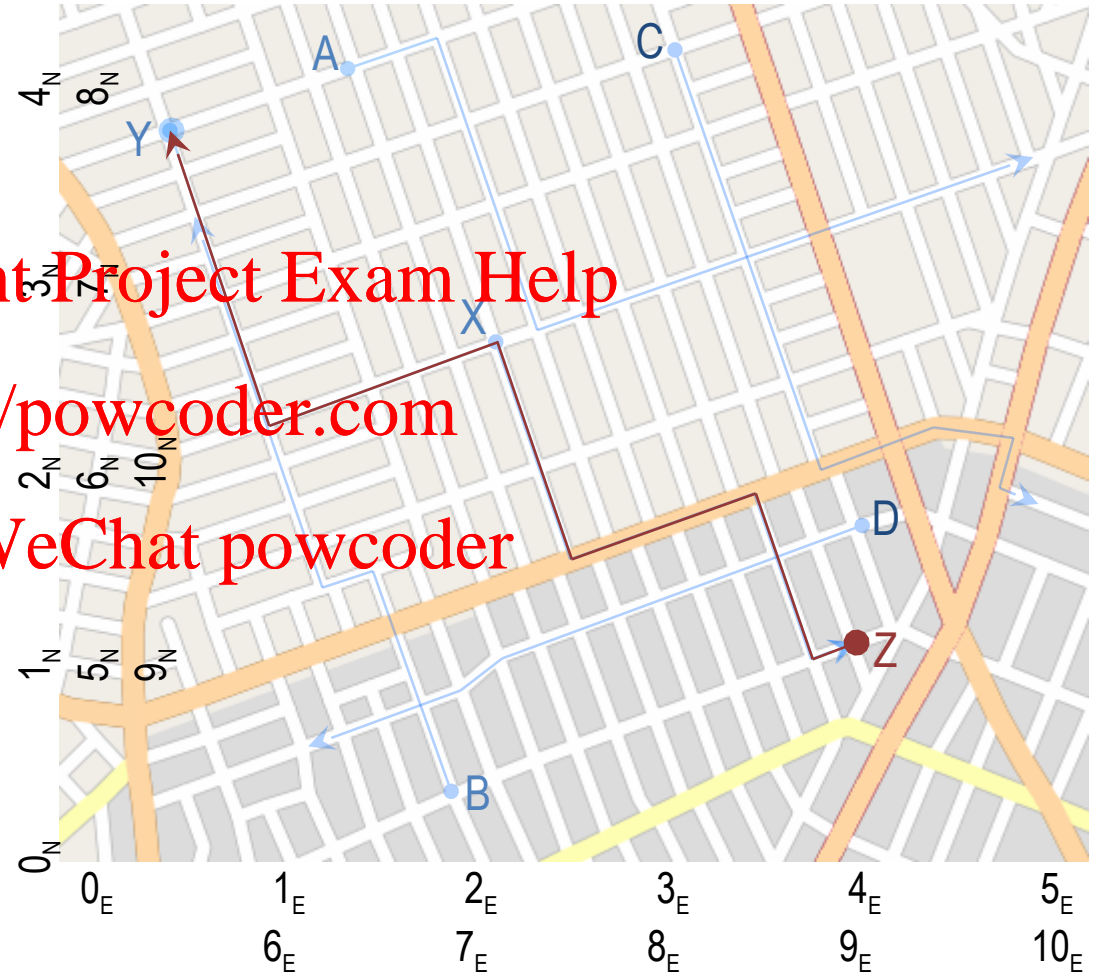


Route	Destination _x	Destination _y
A	10 _E	8 _N
B	1 _E	8 _N
C	10 _E	4 _N
D	2 _E	1 _N
X	8 _E	2 _N
Y	8 _E	2 _N
Z	1 _E	9 _N

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What tags should be used for case Z?



Retrieving a case from memory similar to the current problem

Adapting the solution to that case to fit the current problem

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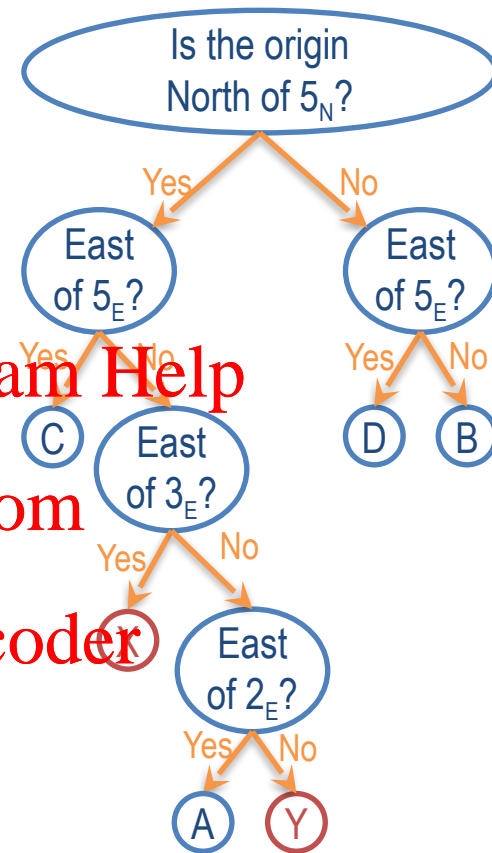


Evaluating how well the adapted solution addresses the current problem

Storing the new problem and solution as a case



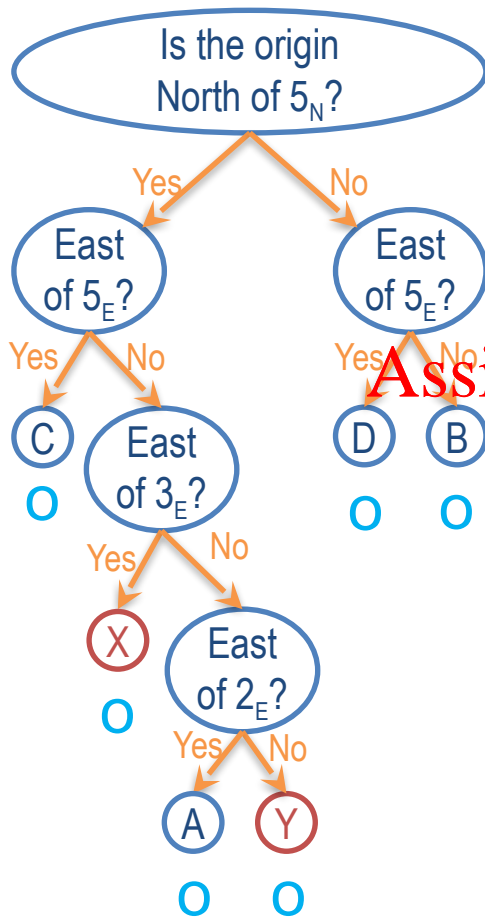
Route	Destination _x	Destination _y
A	10 _E	8 _N
B	1 _E	8 _N
C	10 _E	4 _N
D	2 _E	1 _N
X	8 _E	2 _N
Y	8 _E	2 _N
Z	1 _E	9 _N



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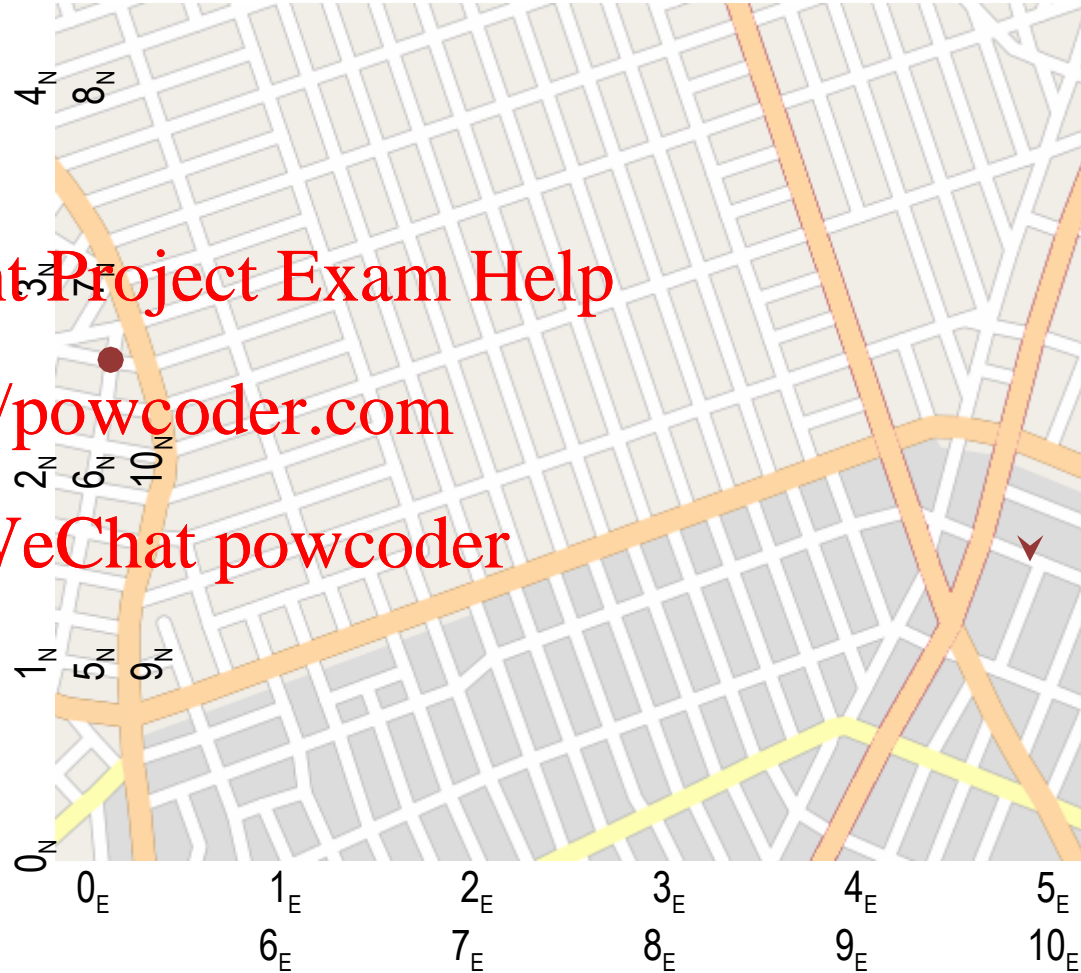


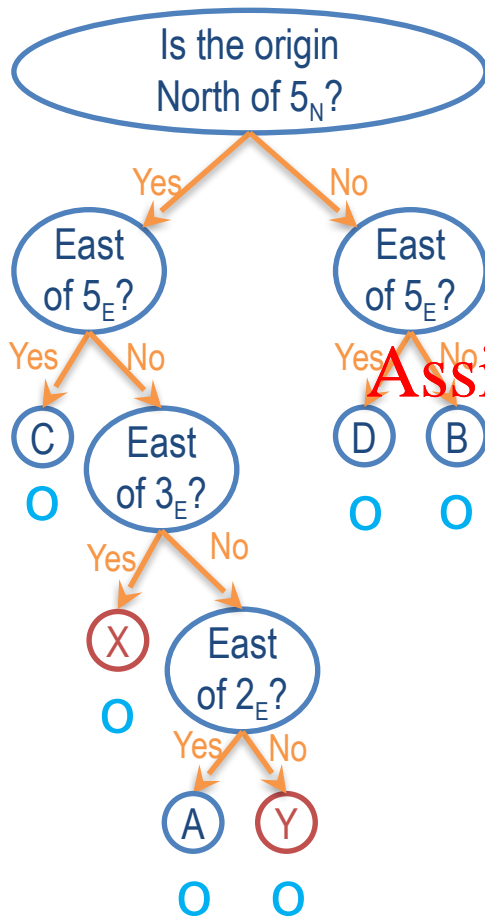
What case should be retrieved and adapted?

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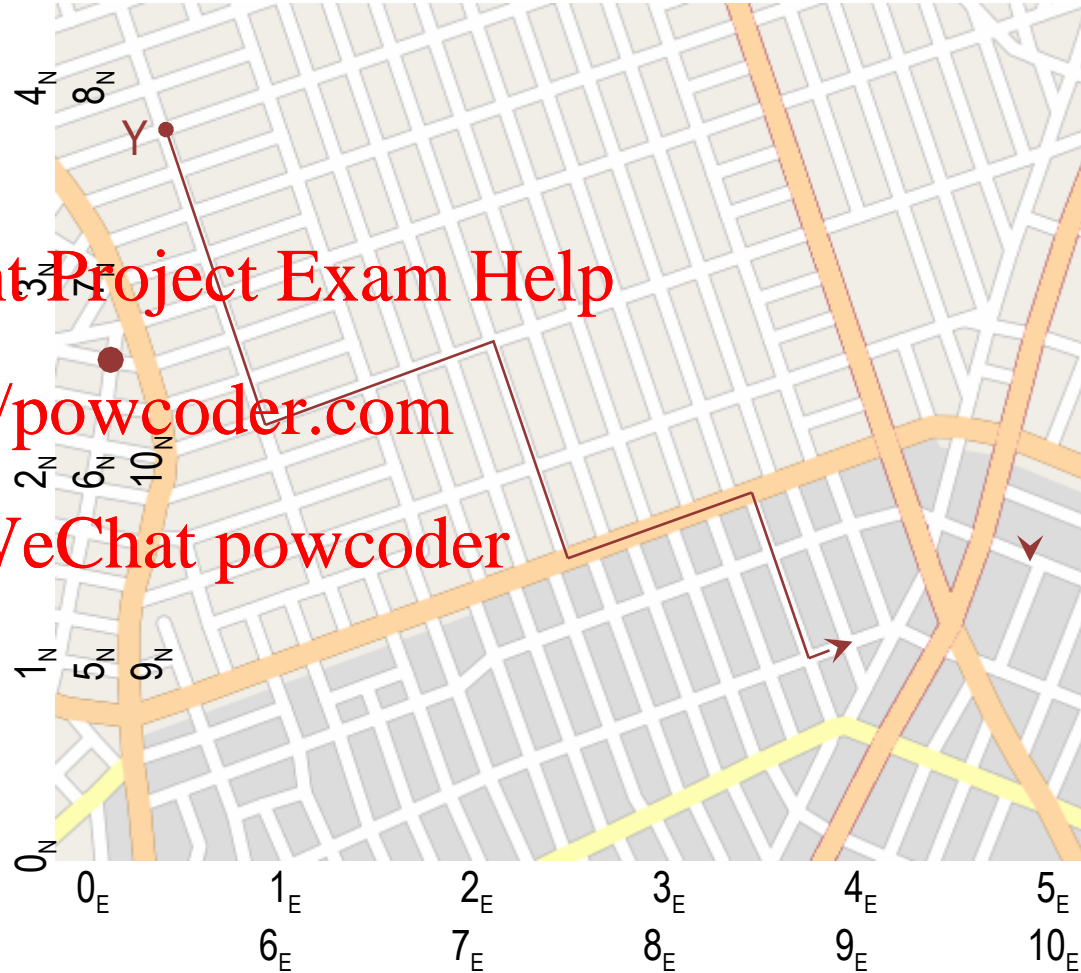


What case should be retrieved and adapted?

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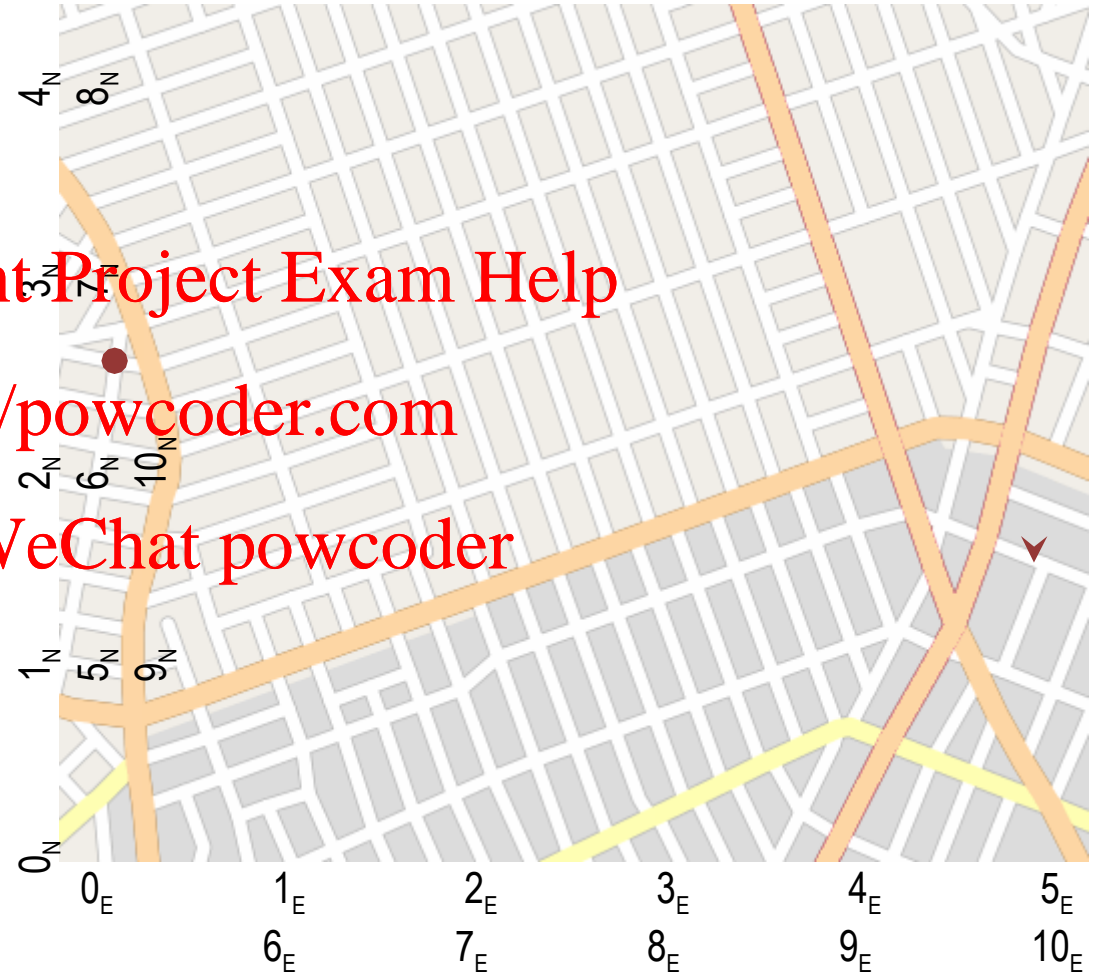
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Route	Destination _x	Destination _y
○ A	10 _E	8 _N
○ B	1 _E	8 _N
○ C	10 _E	4 _N
○ D	2 _E	1 _N
○ X	8 _E	2 _N
○ Y	8 _E	4 _N
○ Z	1 _E	9 _N

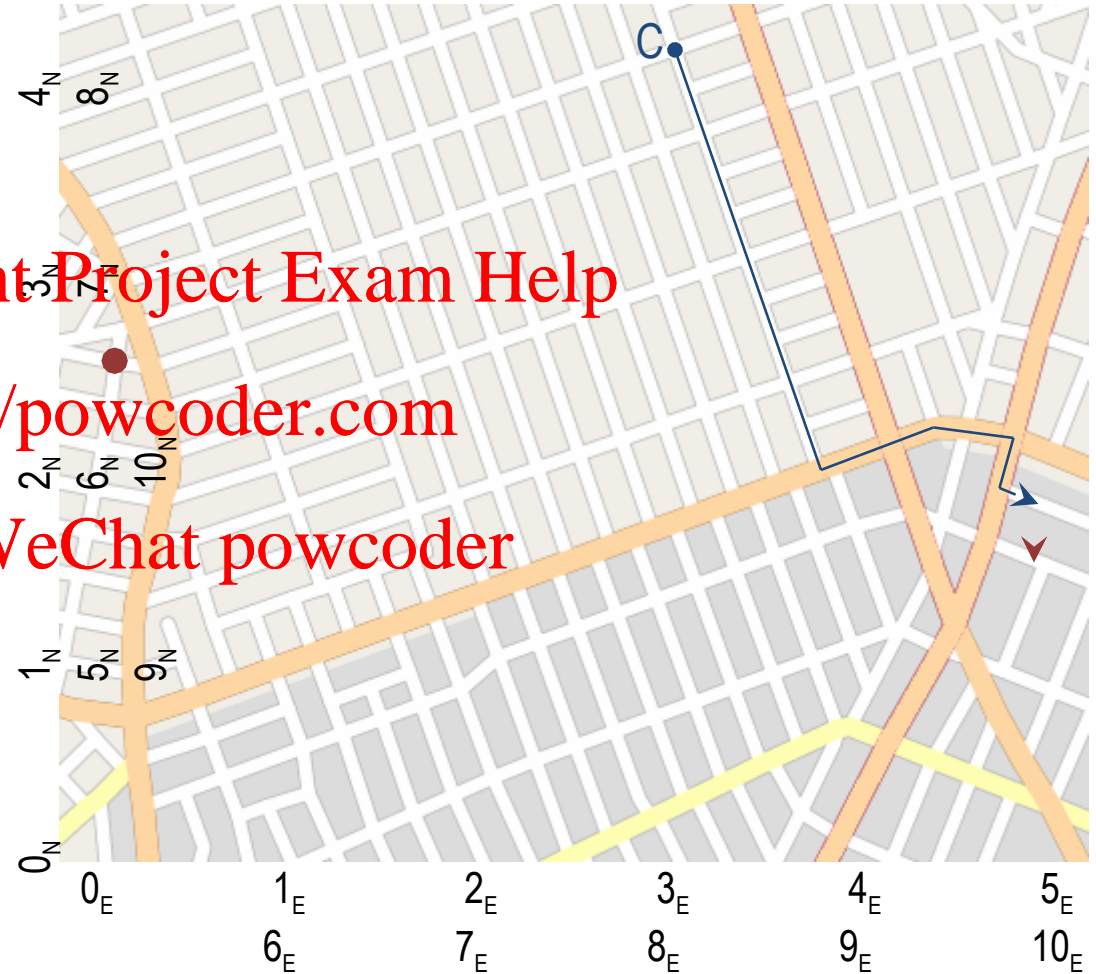
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What case should be retrieved
and adapted?

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	2 _N
○ Y	8 _E	4 _N
○ Z	1 _E	9 _N

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What case should be retrieved
and adapted?

Retrieval



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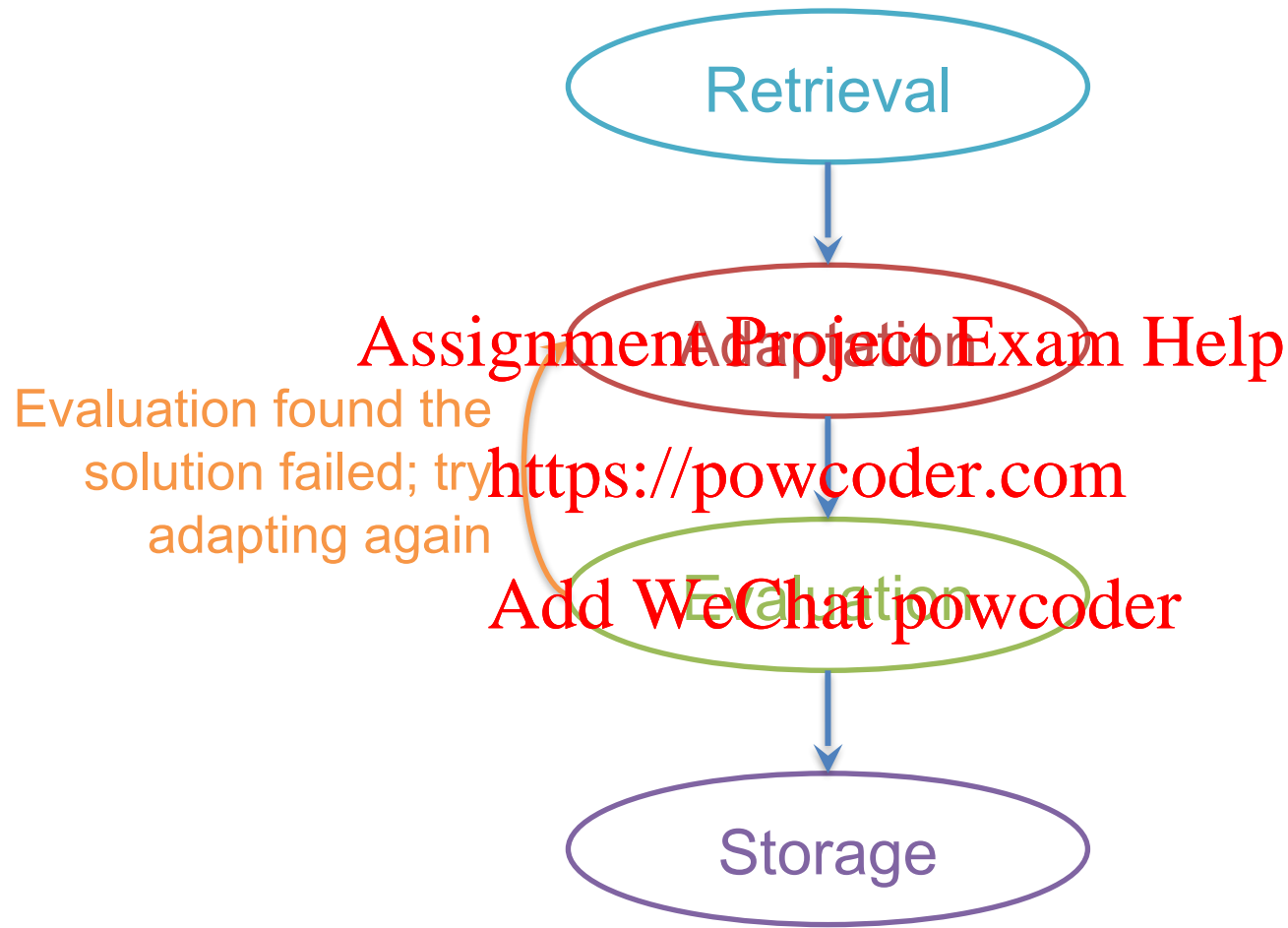


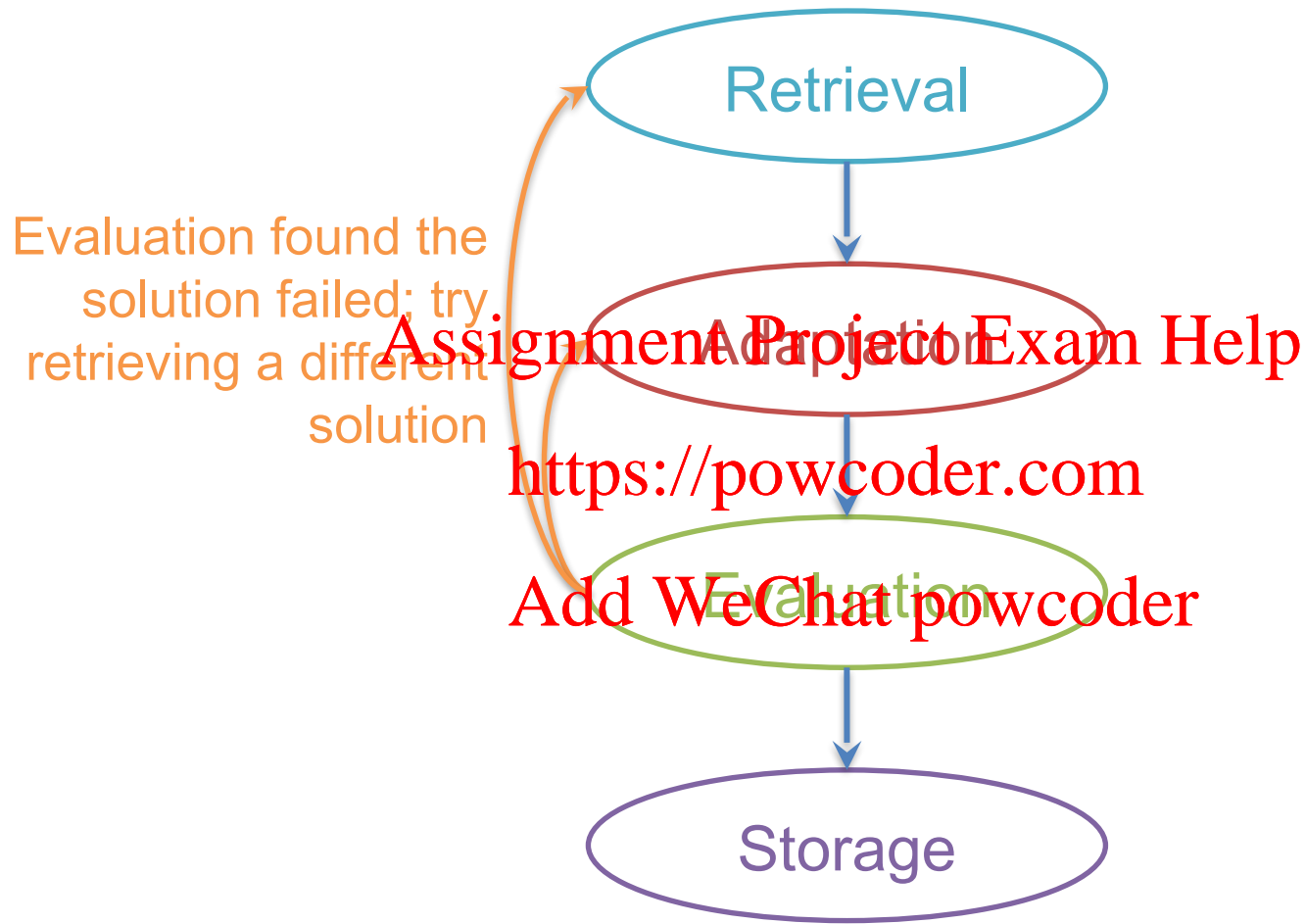
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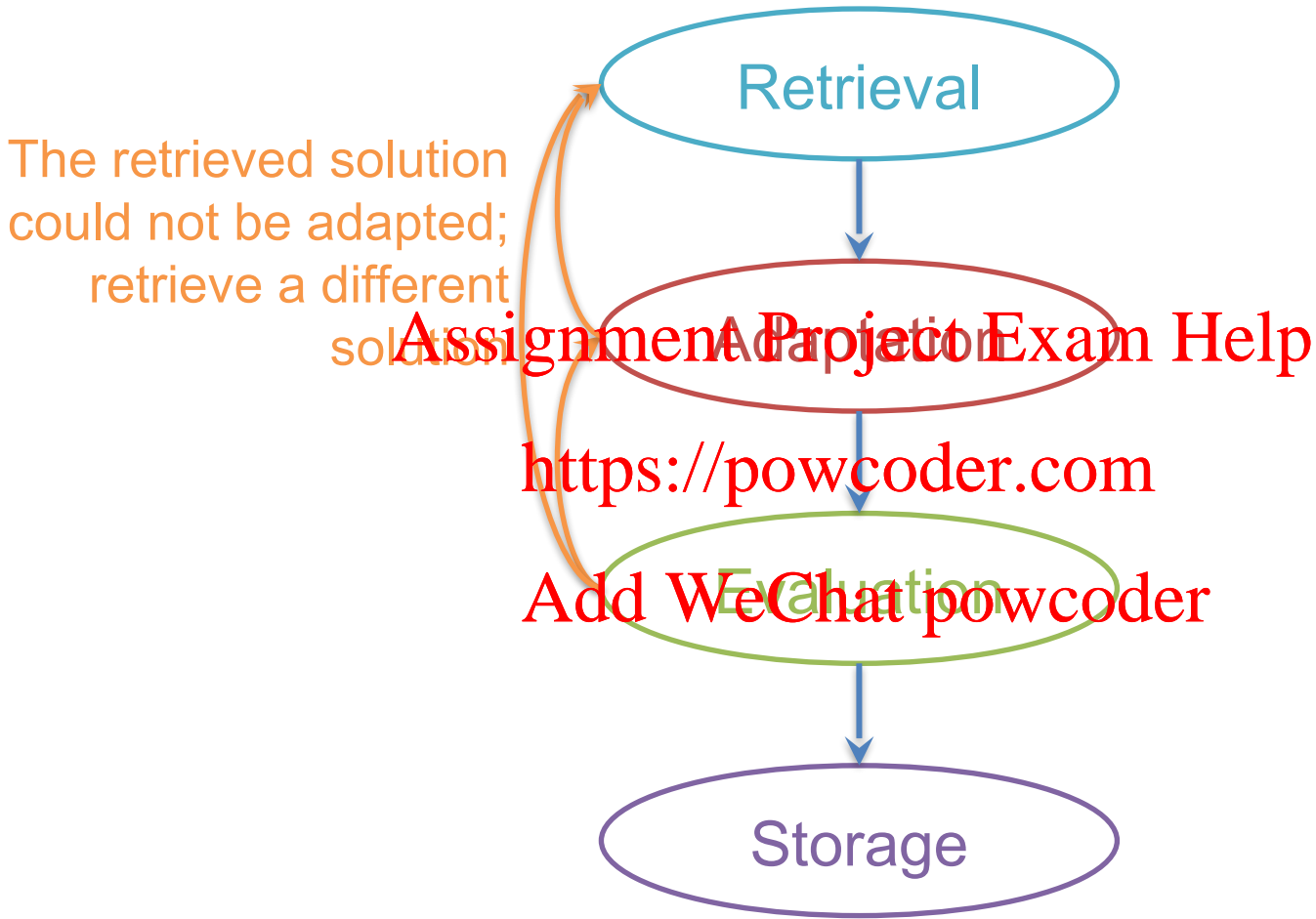
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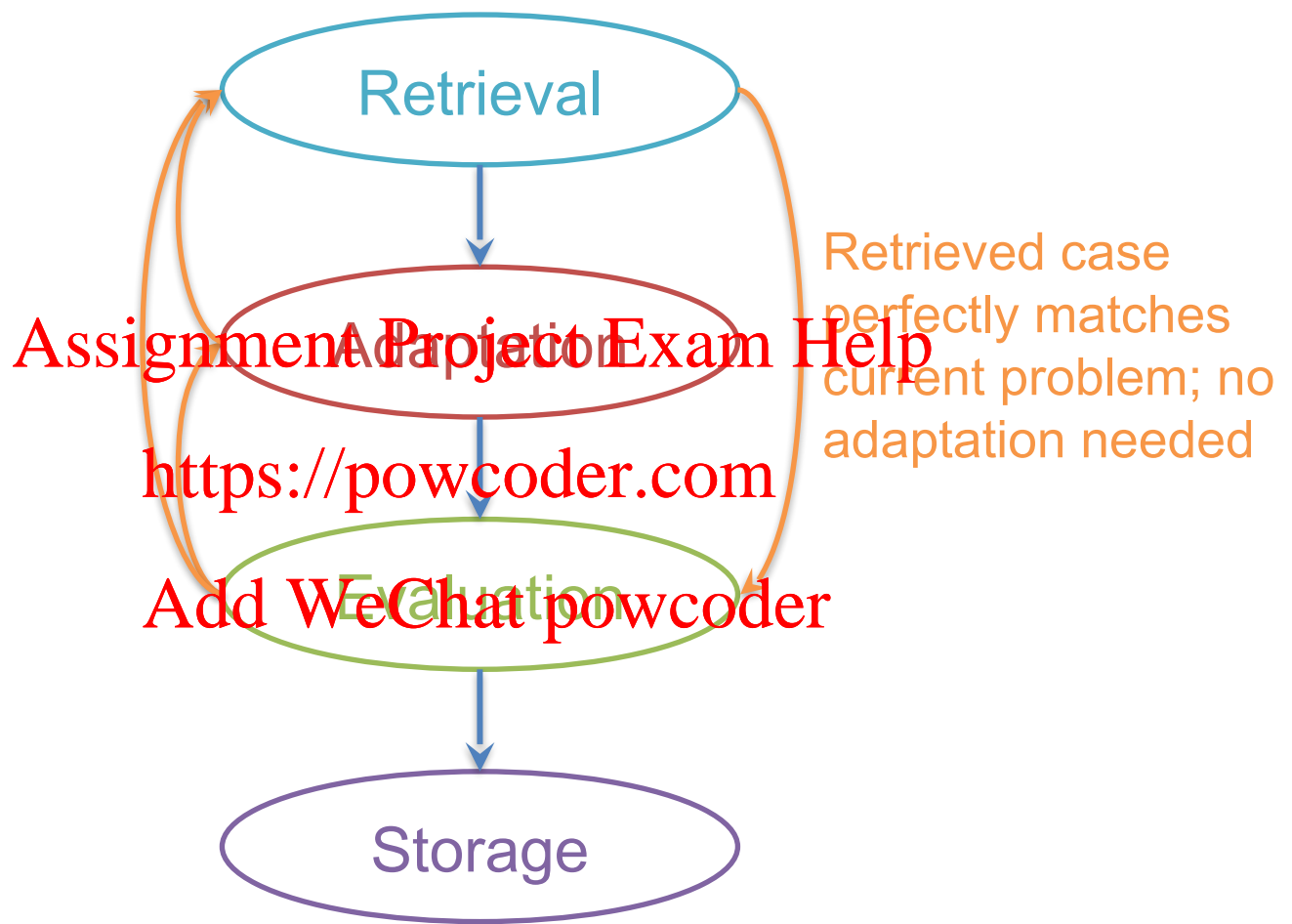


Storage









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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