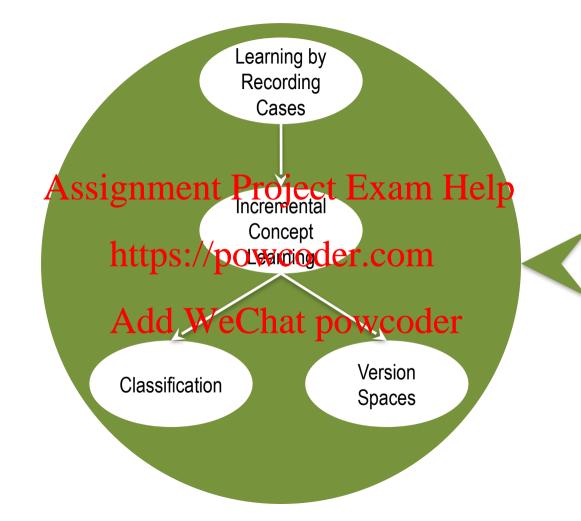
Assignment Project Exam Help

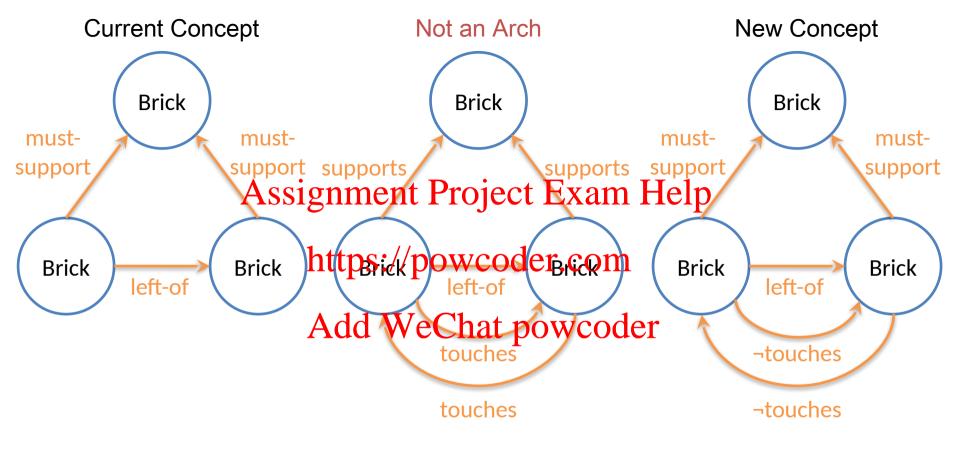
https://powcoder.com Spaces Add WeChat powcoder

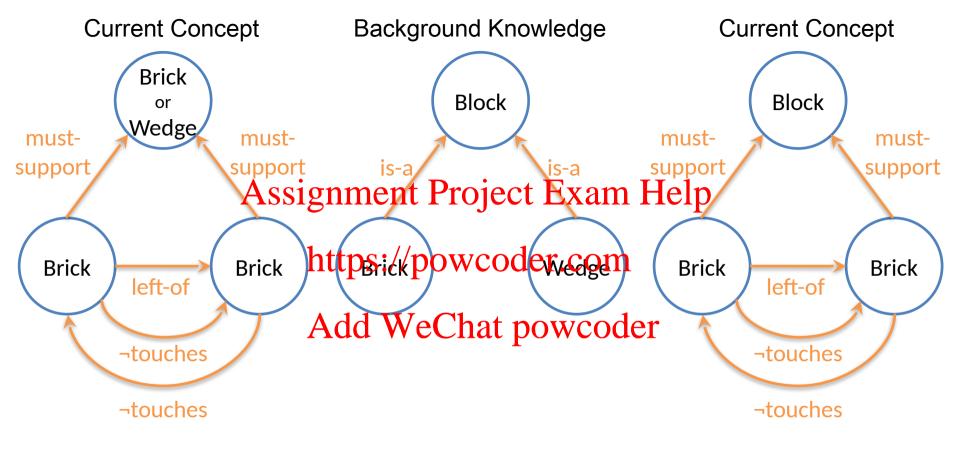
Learning



Lesson Preview

- Definition
- Abstract version spaces Assignment Project Exam Help
- Algorithm for version spaces
 https://powcoder.com
- Identification trees





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Example #1:

Positive

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Example #1:

Positive

Assignment Project Exam Help

https://powcoder.com



Example #2: **Negative**

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https://powcoder.com



Example #2: **Negative**

Assignment Project Exam Help

https://powcoder.com

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Example #3: **Negative**

Assignment Project Exam Help

https://powcoder.com

Add WeChat powcoder



Example #3: **Negative**

Assignment Project Exam Help

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Example #4:

Positive

Assignment Project Exam Help

https://powcoder.com



Example #4:

Positive

Assignment Project Exam Help

https://powcoder.com



Example #5: **Negative**

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Example #5: **Negative**

Assignment Project Exam Help

https://powcoder.com



Example #6: **Negative**

Assignment Project Exam Help

https://powcoder.com



Example #6: **Negative**

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https://powcoder.com

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https://powcoder.com

Add WeChat powcoder





https://powcoder.com

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Example #1:

Positive



https://powcoder.com





Example #1: **Positive**

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https://powcoder.com

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Example #2: **Negative**





https://powcoder.com

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Example #2: **Negative**

Assignment Project Exam Help

https://powcoder.com

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Example #3: **Negative**

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Example #3: **Negative**

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Example #4: Positive

Assignment Project Exam Help

https://powcoder.com

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Example #4: Positive

Assignment Project Exam Help

https://powcoder.com

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Example #5: **Negative**

Assignment Project Exam Help

https://powcoder.com

Add WeChat powcoder



Example #5: **Negative**

Assignment Project Exam Help

https://powcoder.com

Add WeChat powcoder



Example #6: **Negative**

Assignment Project Exam Help

https://powcoder.com

Add WeChat powcoder



Example #6: **Negative**

Assignment-Project Exam Help

https://powcoder.com

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Assignment Project Exam Help

https://powcoder.com

Add WeChat powcoder



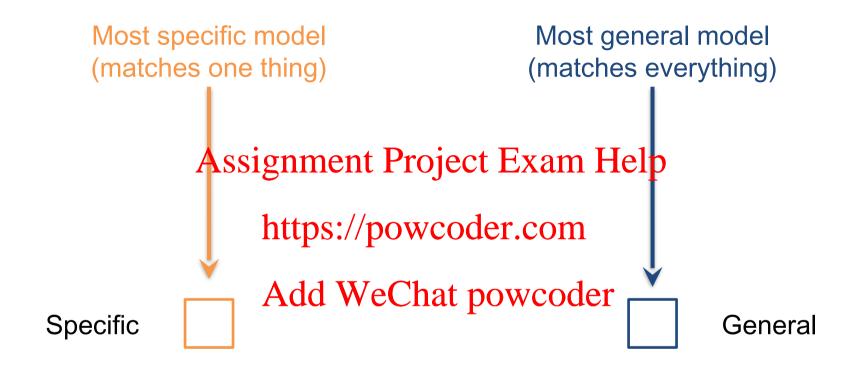
Given new example:

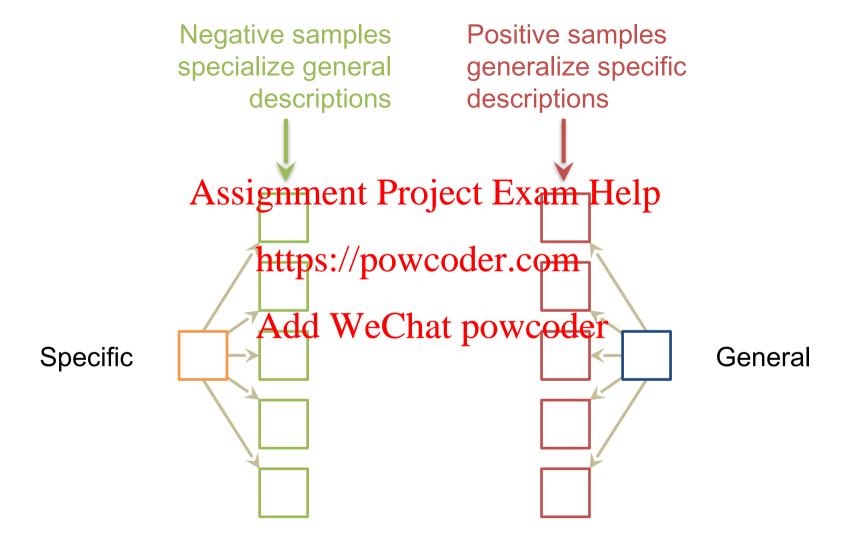
Is this an example of the concept?

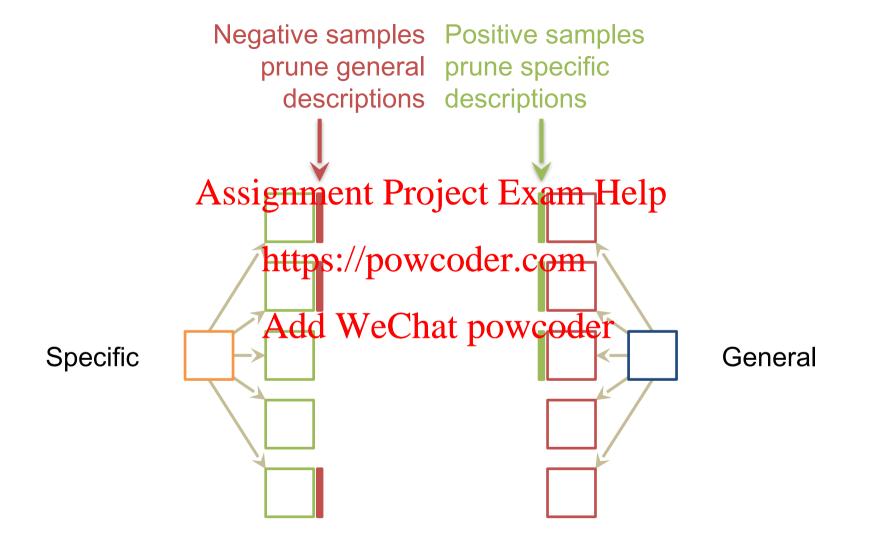
Assignment Project ExamHelp

https://powcoder.com

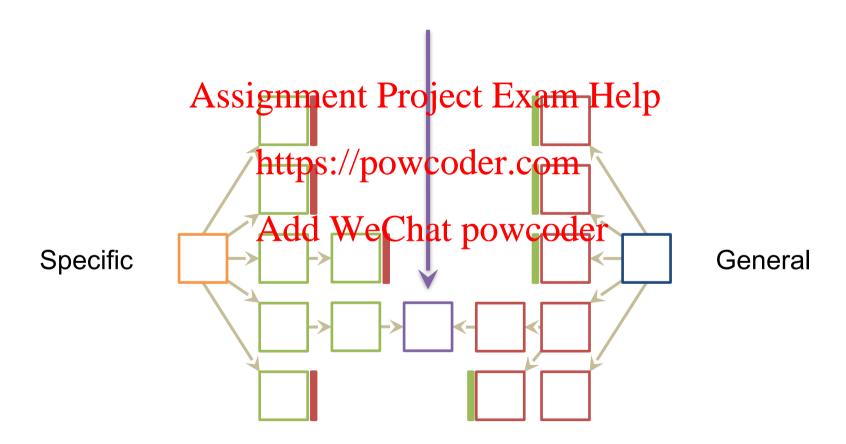
Generalize the 'specific' model WeChat powcoder Specialize the 'specific' model







Positive and negative samples force models to converge



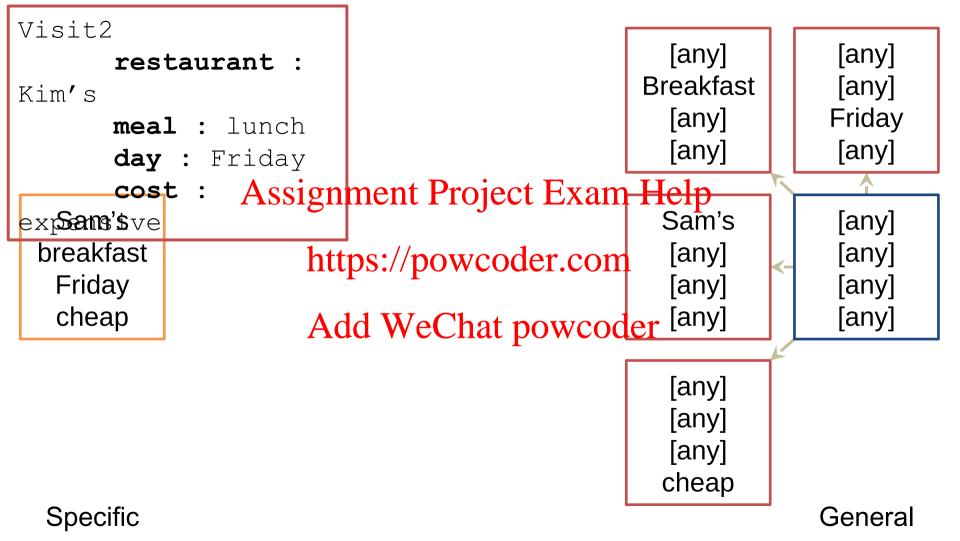
Number	Restauran t	Meal	Day	Cost	Allergic Reaction?
Visit1	Sam'sign	nBreakfasto	ject ^{ri} tayam	Heleap	Yes
Visit2	Kim's	Lunch	Friday	Expensive	No
Visit3	Sam's ht í	tps://powo	costanceom	Cheap	Yes
Visit4	Bob's	Breakfast	Sunday	Cheap	No
Visit5	Sam's A	Breakfast	at powcod	Expensive	No

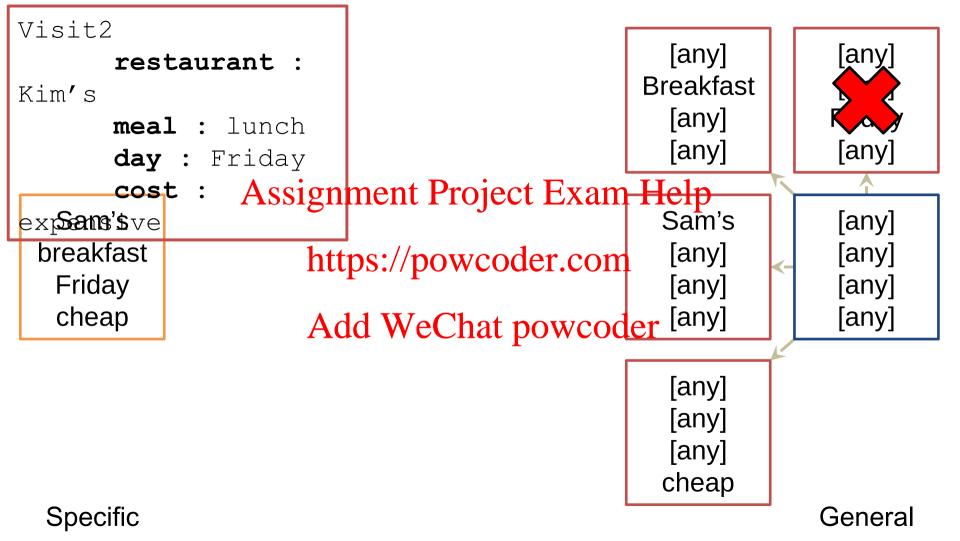
```
Visit1
      restaurant :
Sam's
      meal:
breakfast.
      day: FrAssignment Project Exam Help
      cost : cheap
                  https://powcoder.com
```

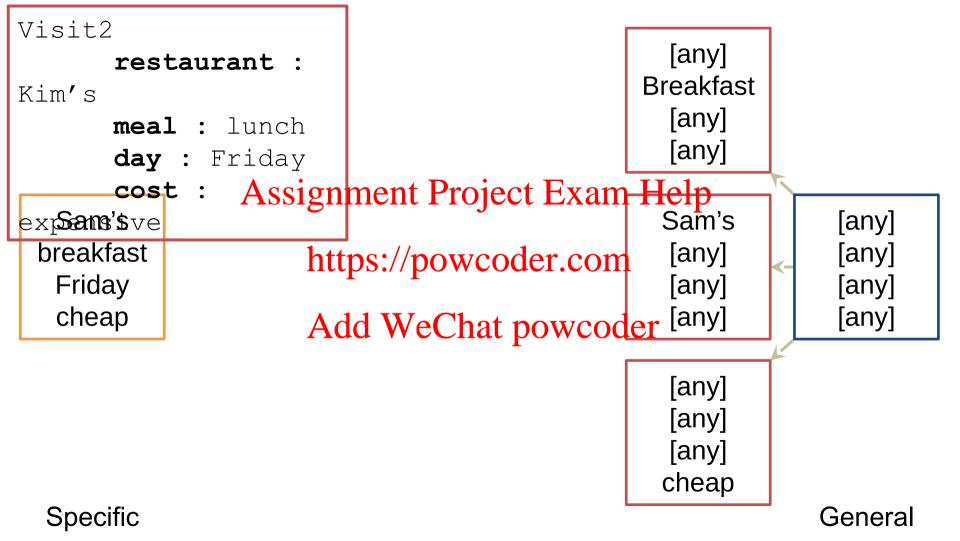
Add WeChat powcoder

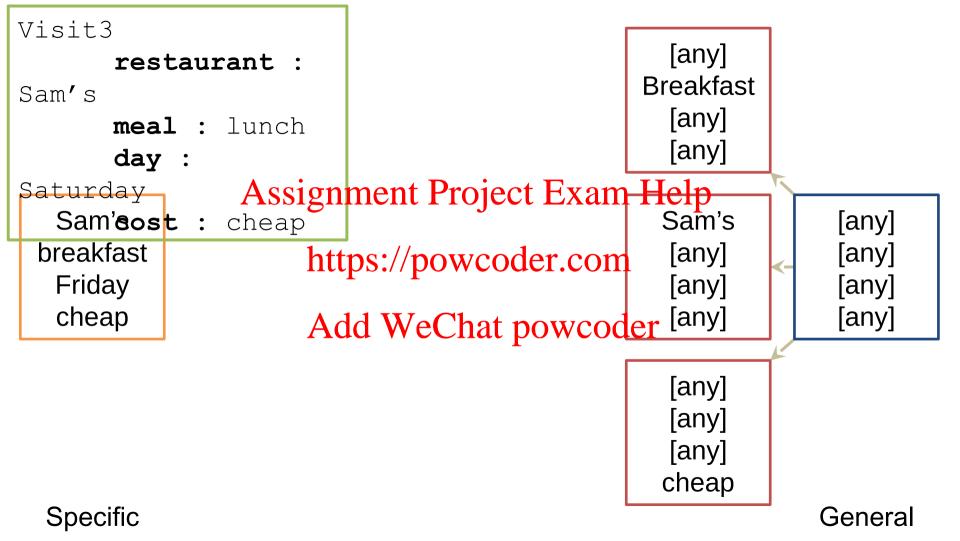
```
Visit1
      restaurant :
Sam's
      meal:
breakfast.
            FrAssignment Project Exam Help
                                                         [any]
  Sam's
             cheap
 breakfast
                                                         [any]
                    https://powcoder.com
                                                         [any]
  Friday
  cheap
                                                         [any]
                    Add WeChat powcoder
```

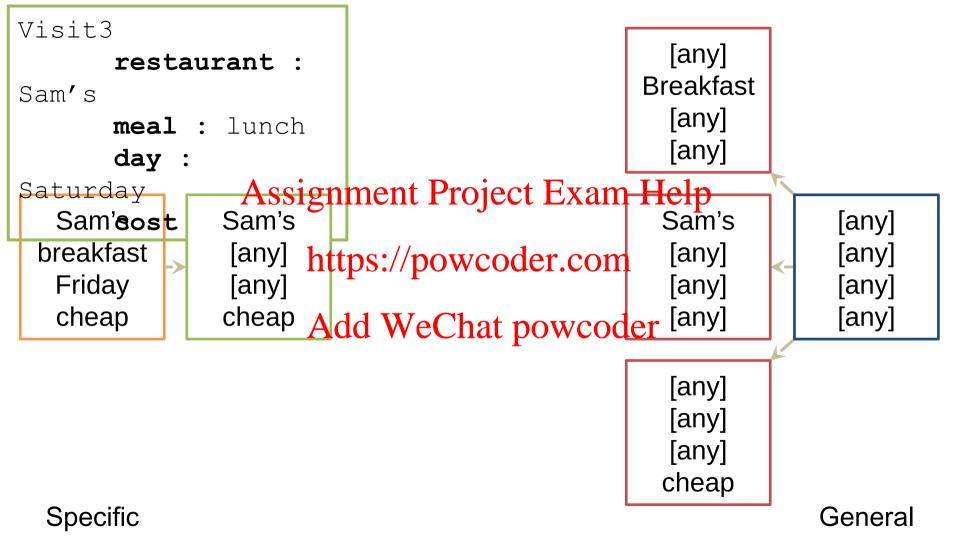
```
Visit2
      restaurant :
Kim's
      meal : lunch
      day : Friday
               Assignment Project Exam Help
                                                        [any]
  Sam's
 breakfast
                                                        [any]
                    https://powcoder.com
                                                        [any]
  Friday
  cheap
                                                        [any]
                    Add WeChat powcoder
```

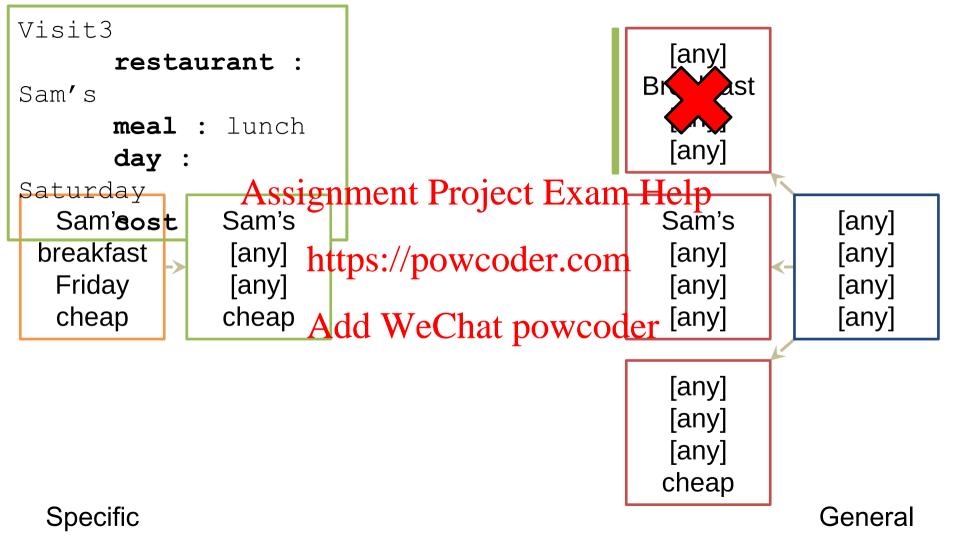


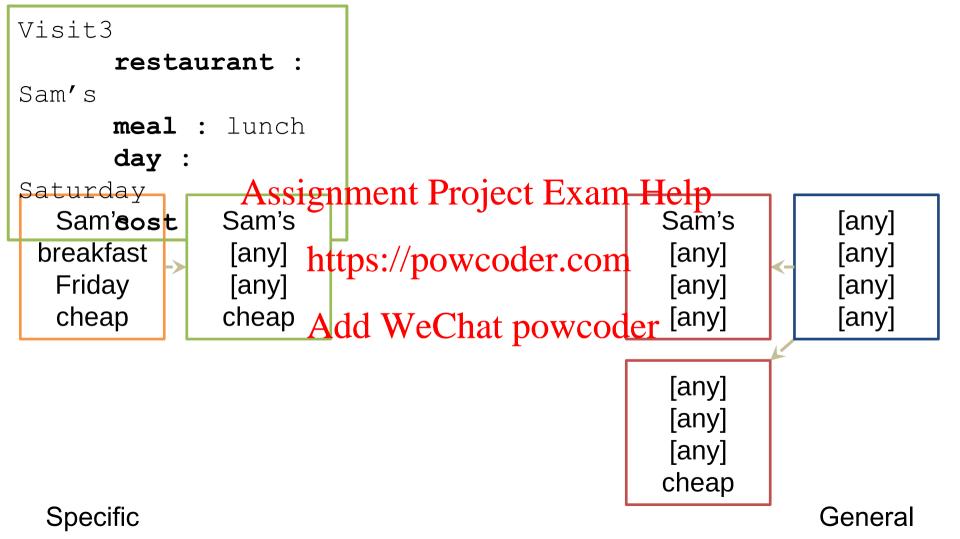


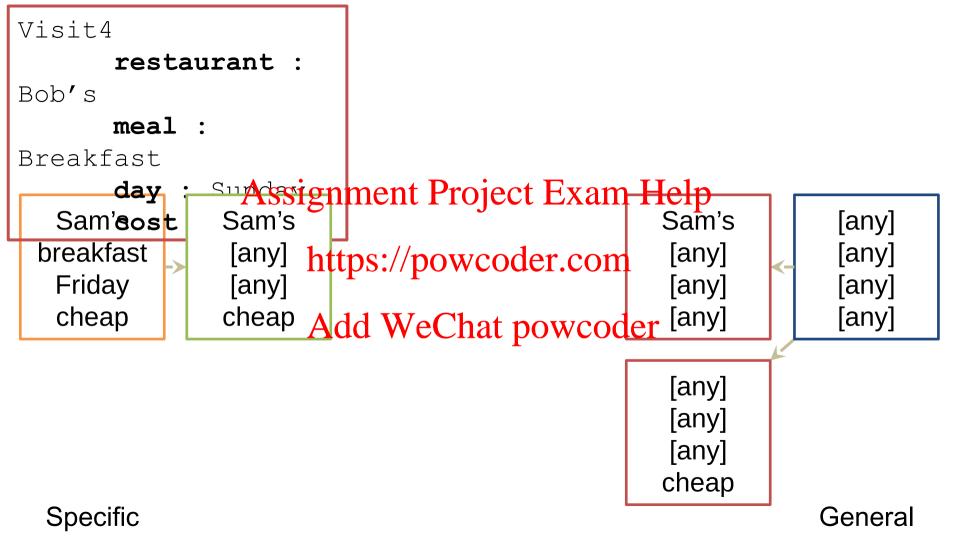


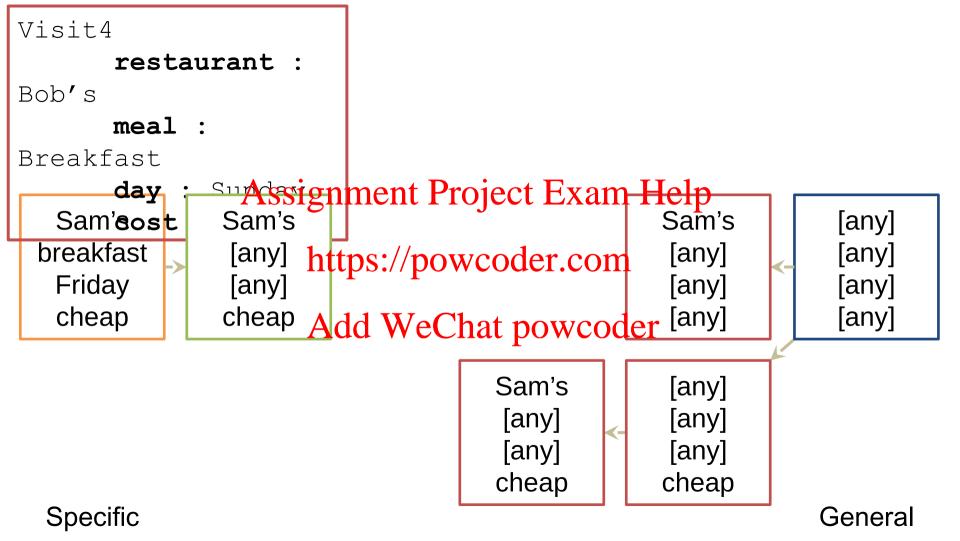


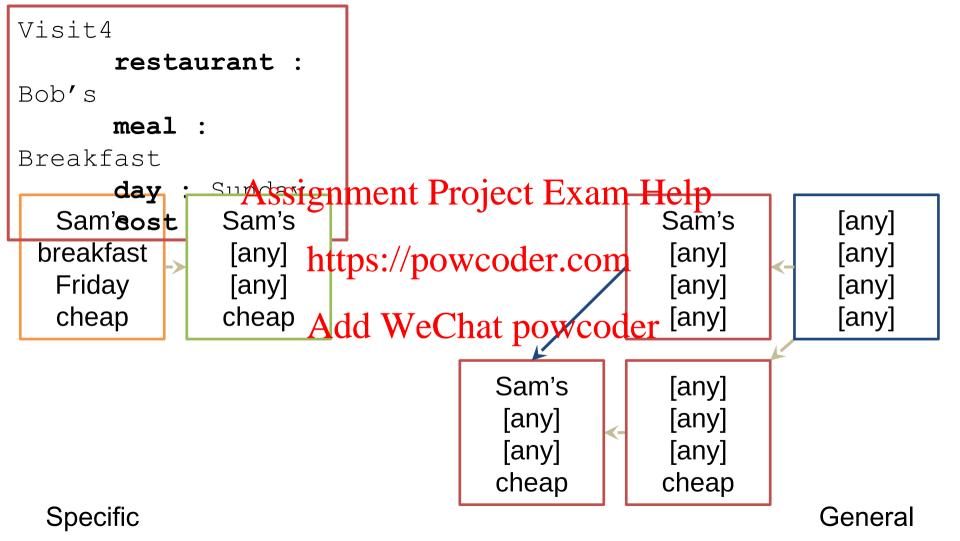


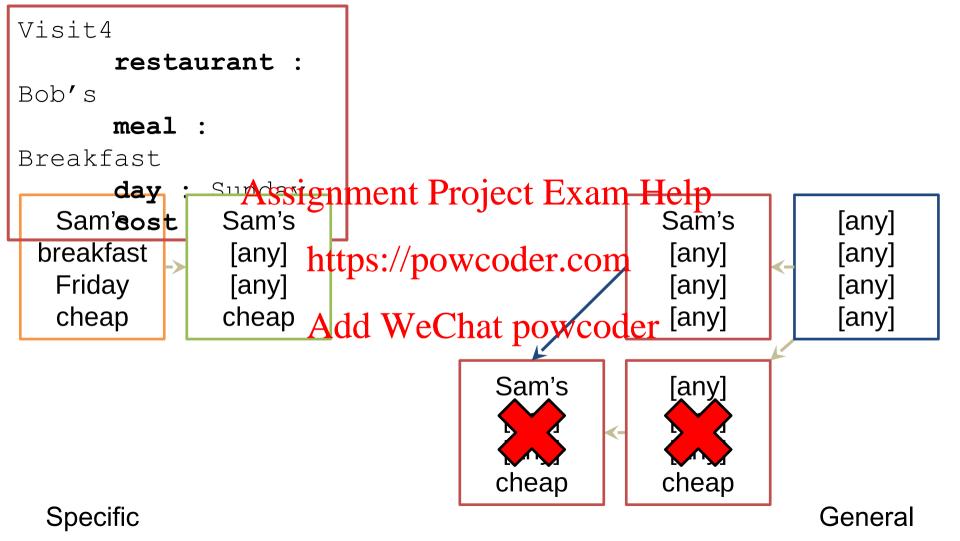


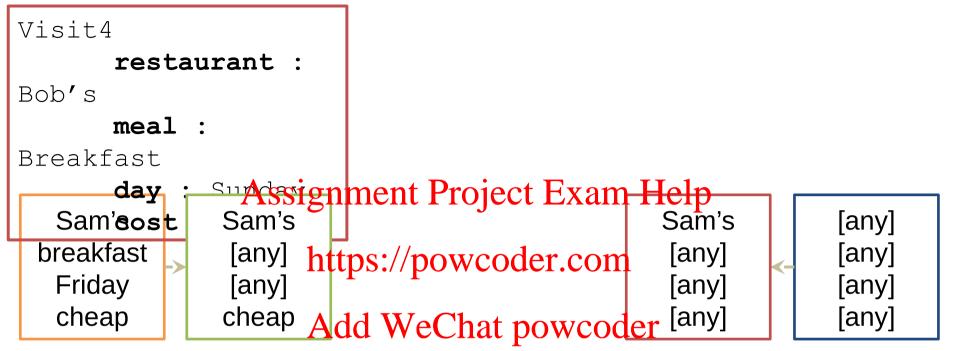


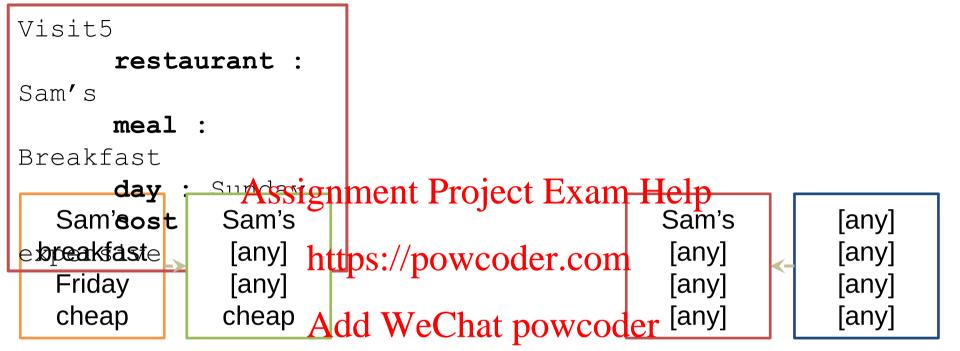












```
Visit5
       restaurant :
Sam's
       meal:
Breakfast.
              SuAssignment Project Exam Help
       day
                                              Sam's
               Sam's
                                   Sam's
  Sam'eost
                                                            [any]
                     https://powcoder.com
e breakfaste
                                               [any]
                                                            [any]
               [any]
  Friday
               [any]
                                               [any]
                                                            [any]
                     Add WeChatheancoder [any]
  cheap
               cheap
                                                            [any]
```

```
Visit5
       restaurant :
Sam's
       meal:
Breakfast.
              SuAssignment Project Exam Help
       day
                                               Sam's
               Sam's
  Sam'eost
                                   Sam's
                                                             [any]
e breakfaste
               [any]
                                                [any]
                                                             [any]
  Friday
                [any]
                                                [any]
                                                             [any]
                     Add WeChatheancoder [any]
  cheap
                                                             [any]
               cheap
```

Algorithm for Version Spaces

For each example:

it.

include it.

If the example is Project Exam Help Generalize all specific models to include it

Prune away general models that cannot include https://powcoder.com

If the example is negative: we coder

Specialize all general models to include it Prune away specific models that cannot

Prune away any models subsumed by other models

Number	Meal	Meal	Day	Cost	Vegan	Reaction ?
Visit1	Kim's	Breakfas t	Friday	Cheap	No	Yes
Visit2	Kim's	Lunch	Friday	Cheap	No	Yes
Visit3	Sam's S	signment	Saulesy	Exame	Help No	No
Visit4	Kim's	Breakfas/I	Sunday	cheap cr.com	Yes	No
Visit5	Sam's	Breakfas	_	е		No
Visit6	Kim's	What model	Catilidan	onverge o	n? No	Vac
Kim's	e [any]	[any] 🖁 ŀ	Kim's 💾	Kim's	[any]
[any]	[any]	Lunc	h <mark>n</mark> L	.unch S	[any]	[any]
[any]	[any]	Frida	y 📙 F	riday 📙	[any]	[any]
Cheap	[any]	any [any]	Cheap	Cheap	Cheap
[any]	[any]	No		No	No	No



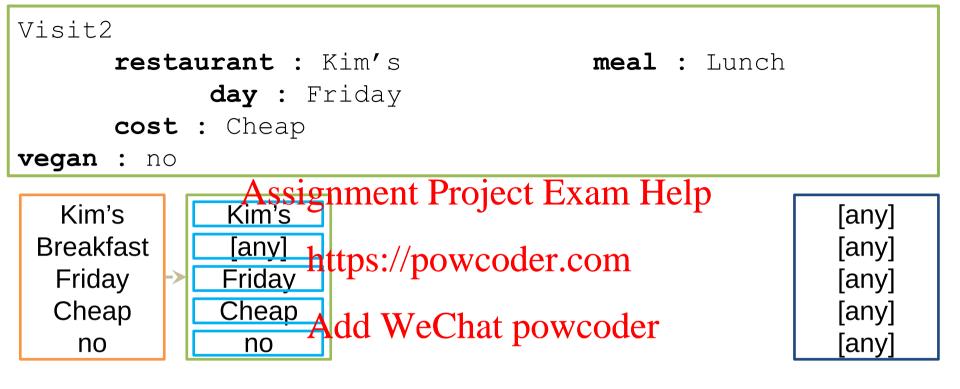
What would the initial general and specific models be?

```
restaurant : Kim's
                                       meal: Lunch
             day : Friday
      cost : Cheap
vegan
      : no
               Assignment Project Exam Help
  Kim's
                                                        [any]
 Breakfast
                                                        [any]
                   https://powcoder.com
  Friday
                                                        [any]
  Cheap
                                                        [any]
                   Add WeChat powcoder
                                                         any
    no
```

Visit2

Based on this example, would we generalize or specialize?

o Generalize of Specialize

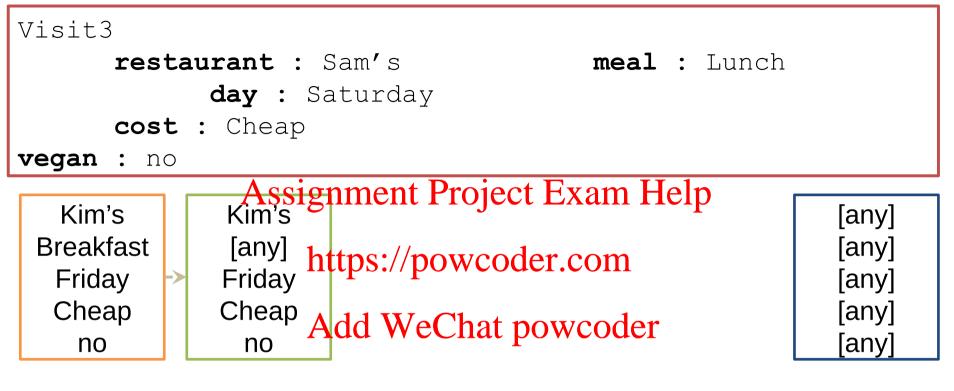


After generalizing, what will the general model be?

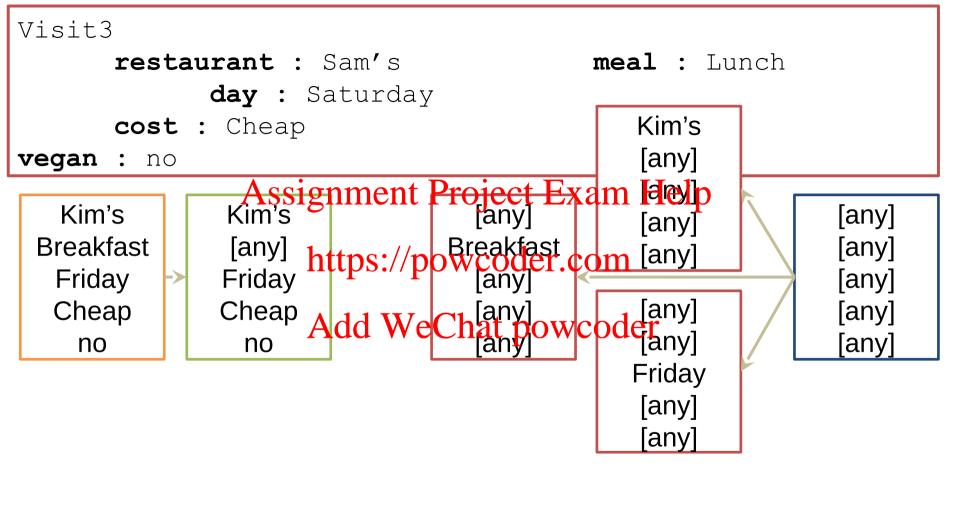
```
Visit3
      restaurant : Sam's
                                        meal: Lunch
             day : Saturday
      cost : Cheap
vegan
       : no
               Assignment Project Exam Help
   Kim's
                                                         [any]
 Breakfast
                                                         [any]
                    https://powcoder.com
              Friday
  Friday
                                                         [any]
              Cheap
  Cheap
                                                         [any]
                    Add WeChat powcoder
               no
                                                          any
    no
```

Based on this example, would we generalize or specialize?

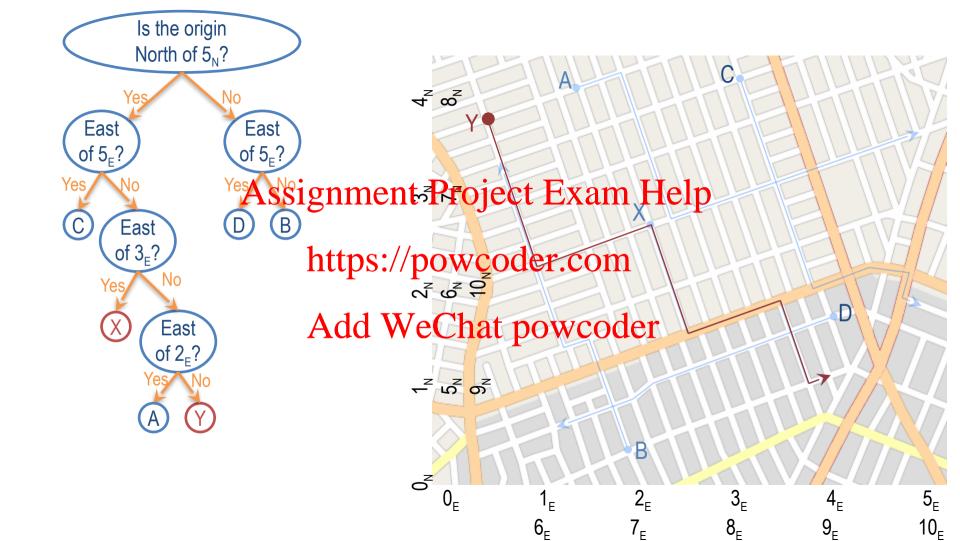
o Generalize o Specialize



How many potential general models will we have after specializing based on this case and pruning?



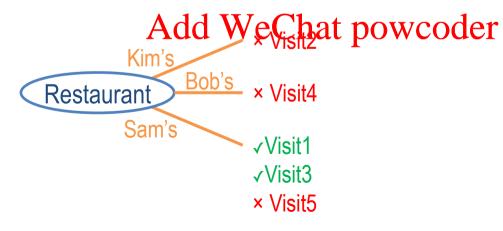
	Number	Meal	Meal	Day	Cost	Vegan	Reaction ?
	Visit1	Kim's	Breakfas t	Friday	Cheap	No	Yes
	Visit2	Kim's	Lunch	Friday	Cheap	▼ 4	Yes
	Visit3	Sam's	signment	Saulasy	Exame	telp No	No
	Visit4	Kim's	Breakfas/I	Sunday	cheap cr.com	Yes	No
Ī	Visit5	Sam's	Breakfasy	e Emalay	wedeler between the control of the c	v Yes	No
	Vicit6	Kim's	/vnat model	Saturday	onverge o	NO	Vac
	Kim's o	[any]	o Π [any] <u>o </u>	Kim's 👩 🖺	Kim's o	any] o
	[any]	[any]	Lunc	h <mark>n</mark> L	unch S	[any]	[any]
	[any]	[any]	Frida	ıy 📙 F	riday 📙	[any]	[any]
	Cheap	[any]	any [any] C	Cheap	Cheap	Cheap
	[any]	[any]	No		No	No	No



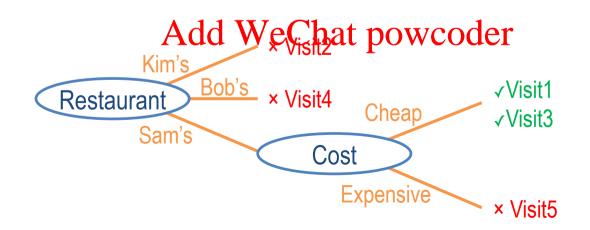
_	Number	Restauran t	Meal	Day	Cost	Allergic Reaction?
	Visit1	Sam's	Breakfast	Friday	Cheap	Yes
	Visit2	Kim's	Lunch	Friday	Expensive	No
	Visit3	Sam's	Lunch	Saturday	Cheap	Yes
	Visit4	Bab §1gn	ment Pro	ject Exam	Helpap	No
	Visit5	Sam's htt	Breakfast	Sunday coder.com	Expensive	No
		110	rbs.//pow	couci.com		

Add WeChat powcoder

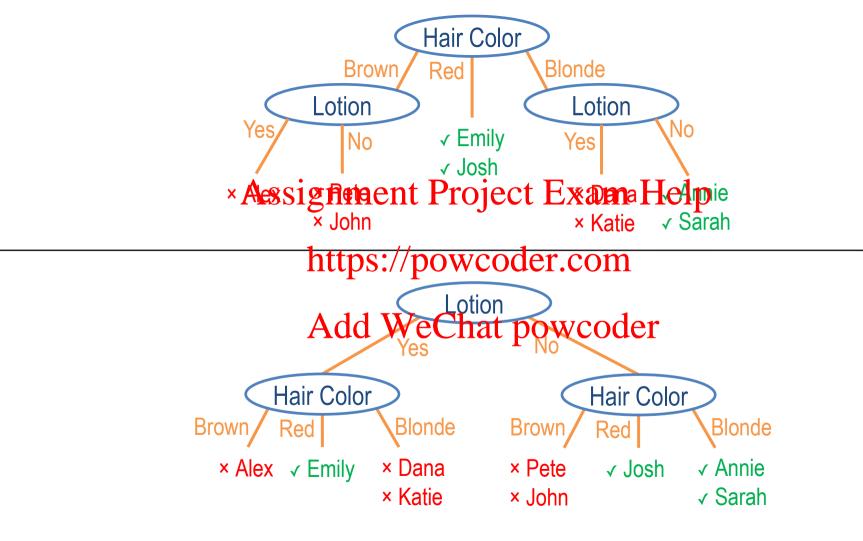
Number	Restauran t	Meal	Day	Cost	Allergic Reaction?
Visit1	Sam's	Breakfast	Friday	Cheap	Yes
Visit2	Kim's	Lunch	Friday	Expensive	No
Visit3	Sam's	Lunch	Saturday	Cheap	Yes
Visit4	Bassign	ment Pro Breakfast	ject Exam	Heipap	No
Visit5	Sam's htt	Breakfast	Sunday coder.com	Expensive	No
	110	ips.//pow	couci.com		

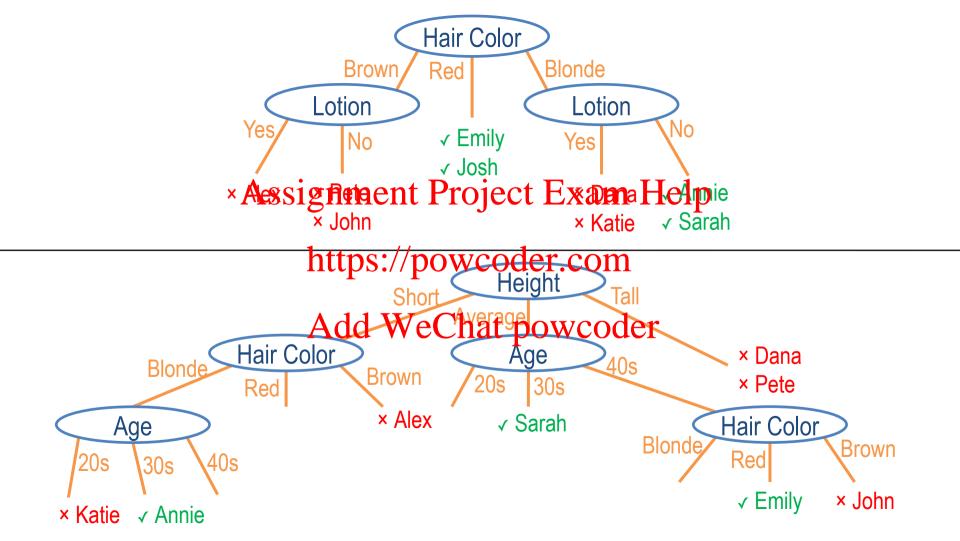


Number	Restauran t	Meal	Day	Cost	Allergic Reaction?
Visit1	Sam's	Breakfast	Friday	Cheap	Yes
Visit2	Kim's	Lunch	Friday	Expensive	No
Visit3	Sam's	Lunch	Saturday	Cheap	Yes
Visit4	Bob §1gn	ment Pro	ject Exam	Heneap	No
Visit5	Sam's htt	Breakfast	Sunday coder.com	Expensive	No
	1100	ps.//pow	Couci.com		



Name	Hair	Height	Age	Lotio n	Burn ?	
Sarah	Blond e	Averag e	20s	No	Yes	
Dana	Blond e	Tall	30s	Yes	No	
Alex	Brown	ShortA	Ssig	nmen	t Rro	ject Exam Help
Annie	Blond	Short	30s	No	Yes	
	е		\mathbf{h}	ttps://	powo	coder.com
Emily	Red	Averag	40s	Yes	Yes	
		е	_	dd W	cCha	at powcode ir Color
Pete	Brown	Tall	40s	No	No	Brown Red Blonde
John	Brown	Averag	40s	No	No	Lotion
		е			Yes/	No
Katie	Blond	Short	20s	Yes	No	No V LITTILY YES
	е				/	√ Josh
Josh	Red	Short	20s	No	Yelex	× Pete × Dana ✓ Annie
						× John × Katie ✓ Sarah





Assignment

How would you use version spaces to design an agent that could answer Raven's progressive matrices?

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Add WeChat powcoder

To recap...

- Definition of version spaces
- Algorithm for version spaces Assignment Project Exam Help
- Complex problems with version spaces https://powcoder.com
 Limitations and questions
- Identification trees Add WeChat powcoder