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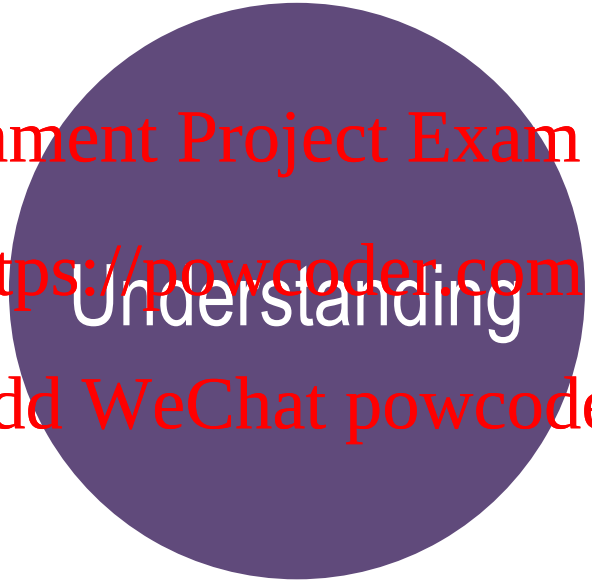
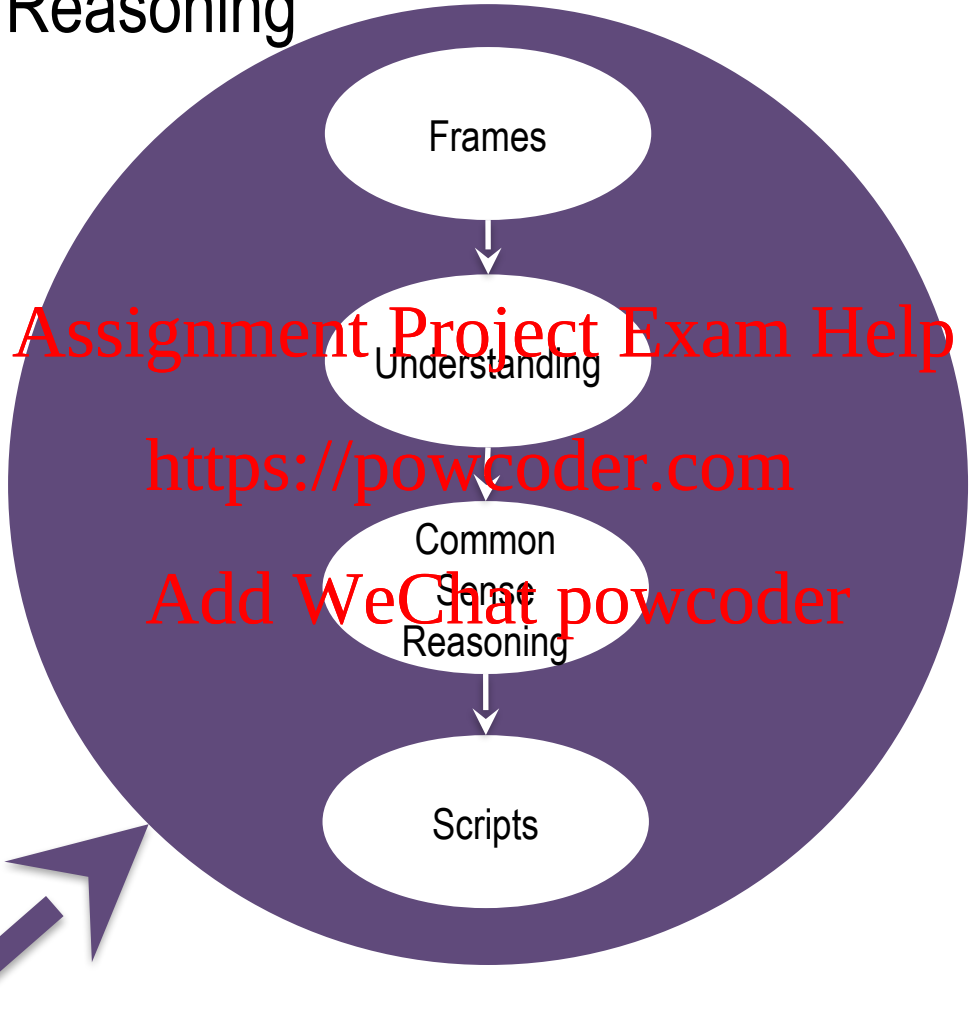


Common Sense Reasoning



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Lesson Preview

- Thematic role systems
- Ambiguity
- Constraints

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Story 1:

Today, an extremely serious earthquake of magnitude 8.5 hit Lower Slabovia, killing 25 people and causing $500 million in damage. The President of Lower Slabovia said that the hard-hit area near the Sadie Hawkins fault has been a danger zone for years.

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Story 2:

Today, the President of Lower Slabovia killed 25 proposals totaling $500 million for research in earthquake prediction. Our Lower Slabovian correspondent calculates that 8.5 research proposals are rejected for every one approved. There are rumors that the President's science advisor, Sadie Hawkins, is at fault.

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Sentence 1:

A serious earthquake killed 25 people in Lower Slabovia.

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Sentence 2:

The President of Lower Slabovia killed 25 proposals for earthquake prediction.

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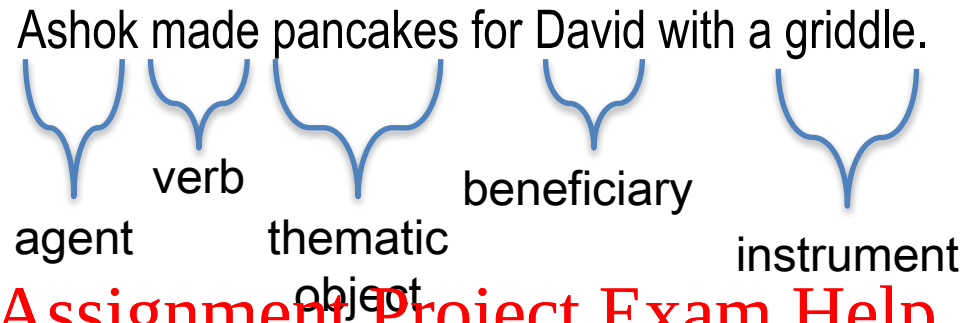

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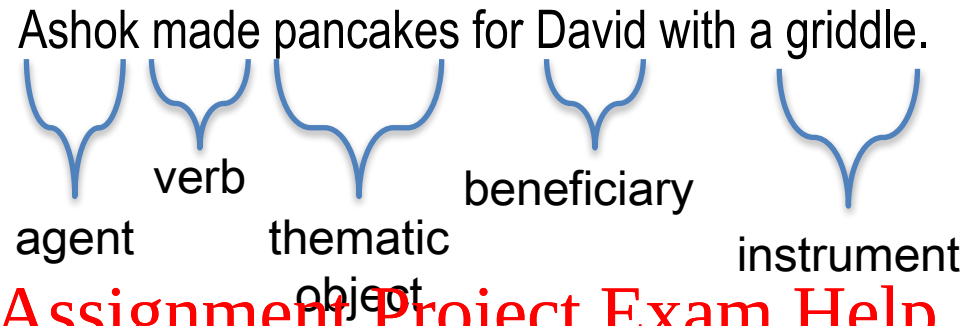

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```
Thematic Role
        verb : make
        agent : Ashok
        beneficiary : David
        thematic object :
pancakes
        instrument : griddle
```

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David went to the meeting with Ashok by car.

Thematic Role

verb : go

agent : David

coagent : Ashok

destination : meeting

conveyance : car

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Write the thematic role frame given by the sentence above.

David went to the meeting with Ashok by car.

```
Thematic Role
        verb : go
        agent : David
        coagent : Ashok
        destination :
meeting
        conveyance : car
```

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David went to the meeting with Ashok by car.

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Thematic Role
        verb : go
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```

Prepositional Constraints

Preposition	Thematic Roles
by	agent, conveyance, location
for	beneficiary, duration
from	source
to	destination
with	coagent, instrument

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That was written by Ashok.

David went to New York by train.

David stood by the statue.

Prepositional Constraints

Preposition	Thematic Roles
by	agent, conveyance, location
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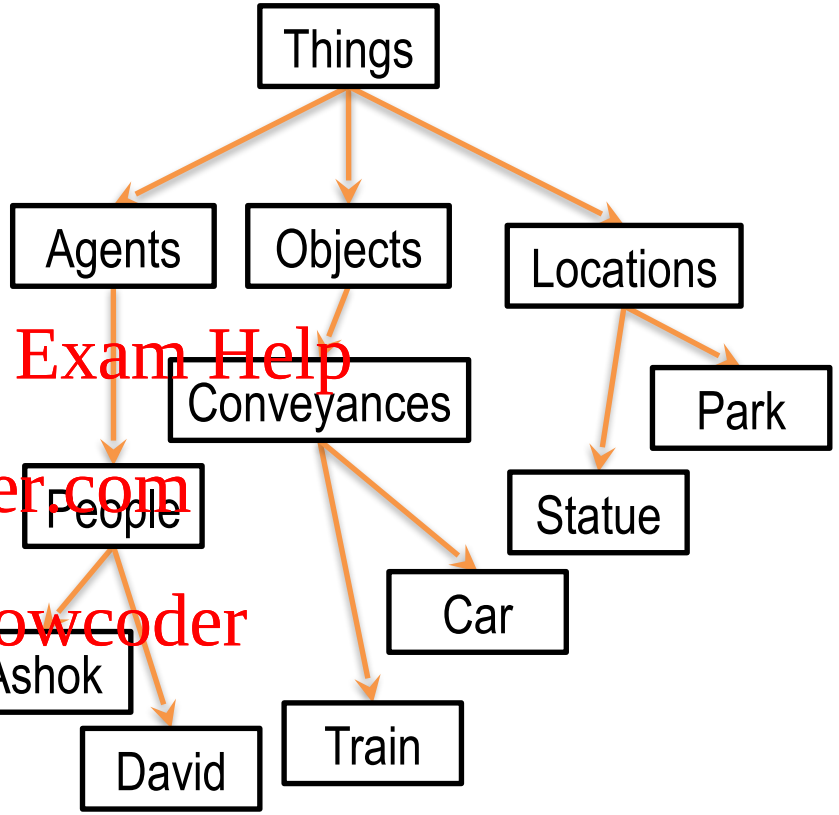

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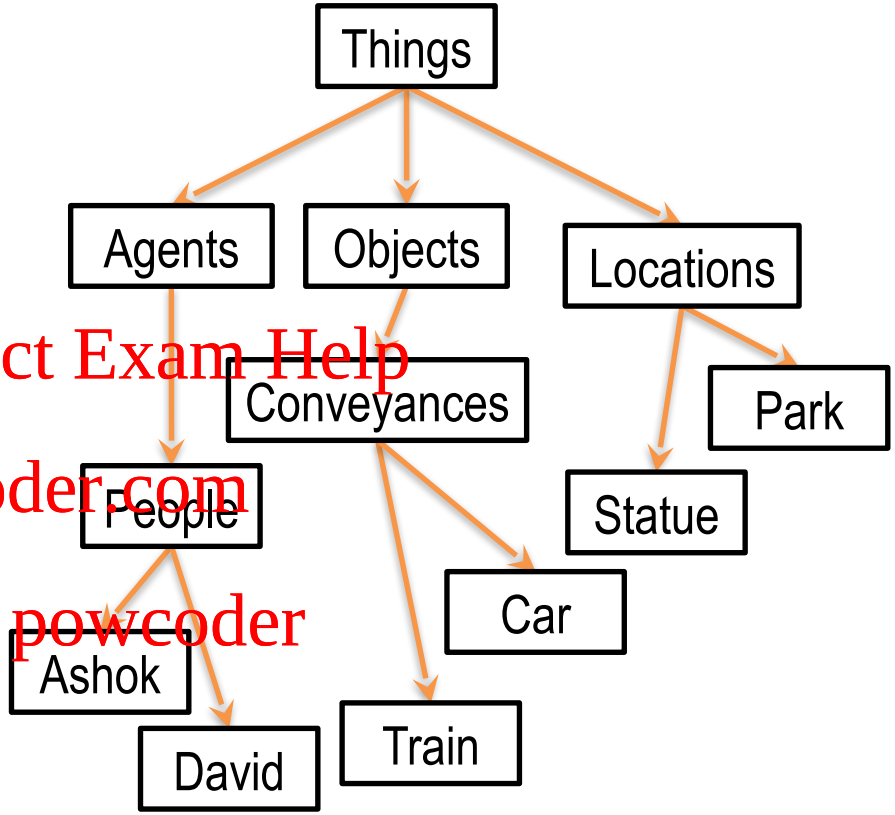

take. *verb.* /tāk/

- to reach for and hold
- to bring or transport
- to remove
- to medicate
- to capture
- to steal
- to cheat or swindle
- to subtract
- to measure
- to accompany
- to assume control
- to remove from the body

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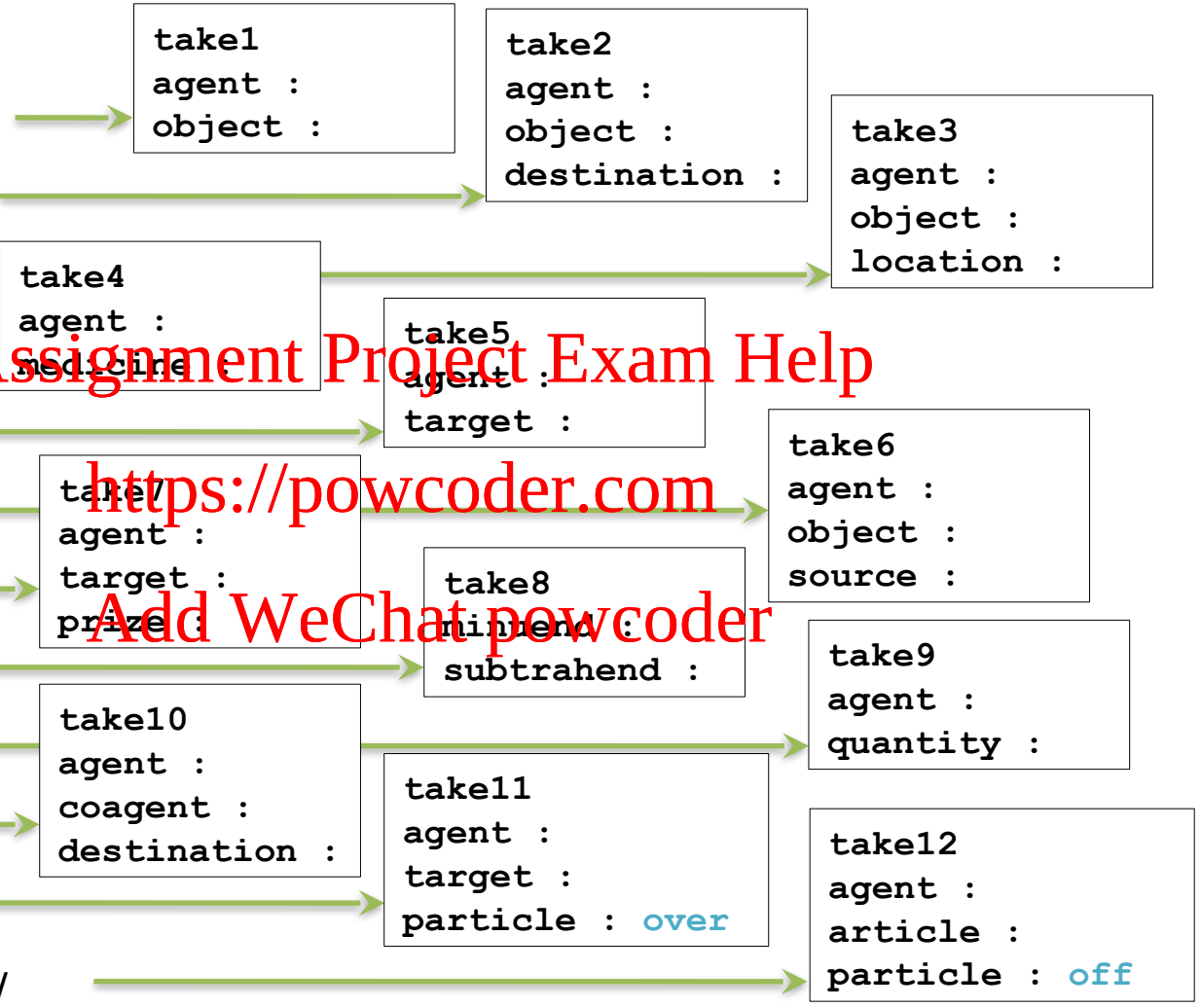

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I took the candy from the baby.

take. *verb.* /tāk/

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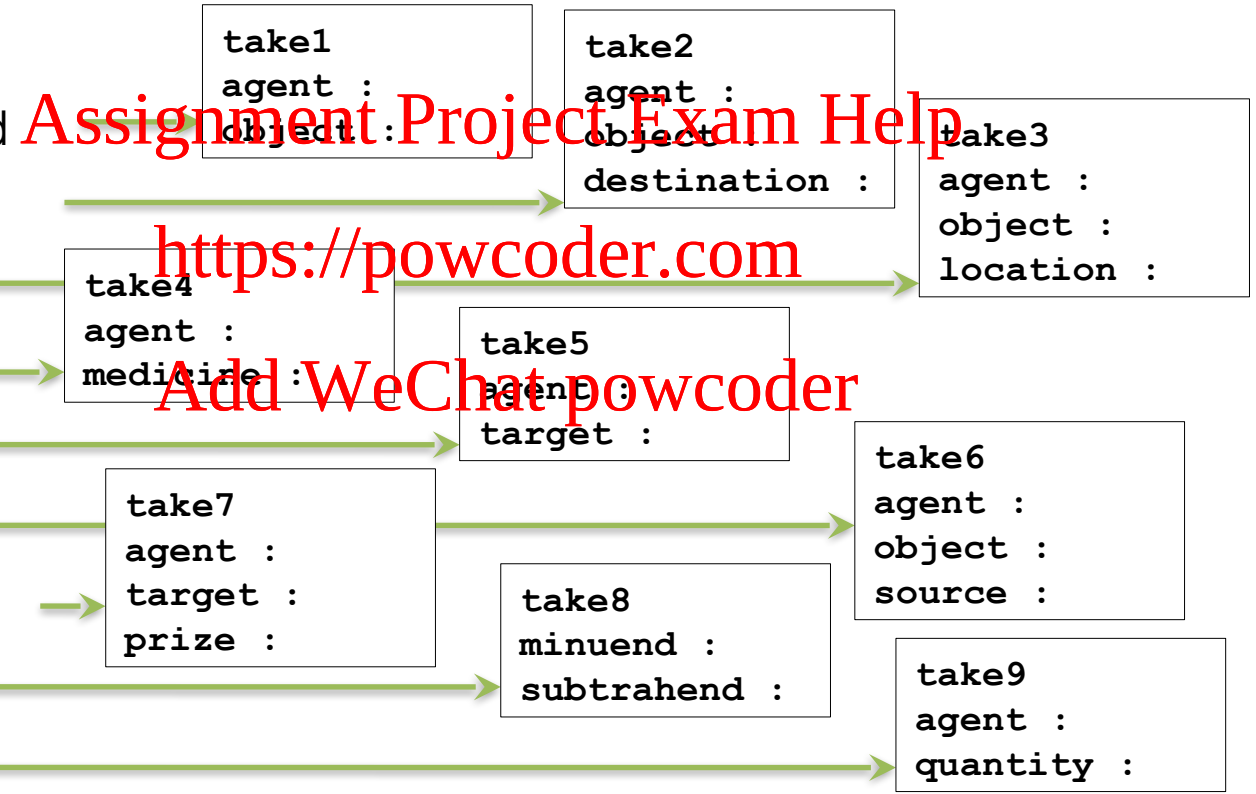

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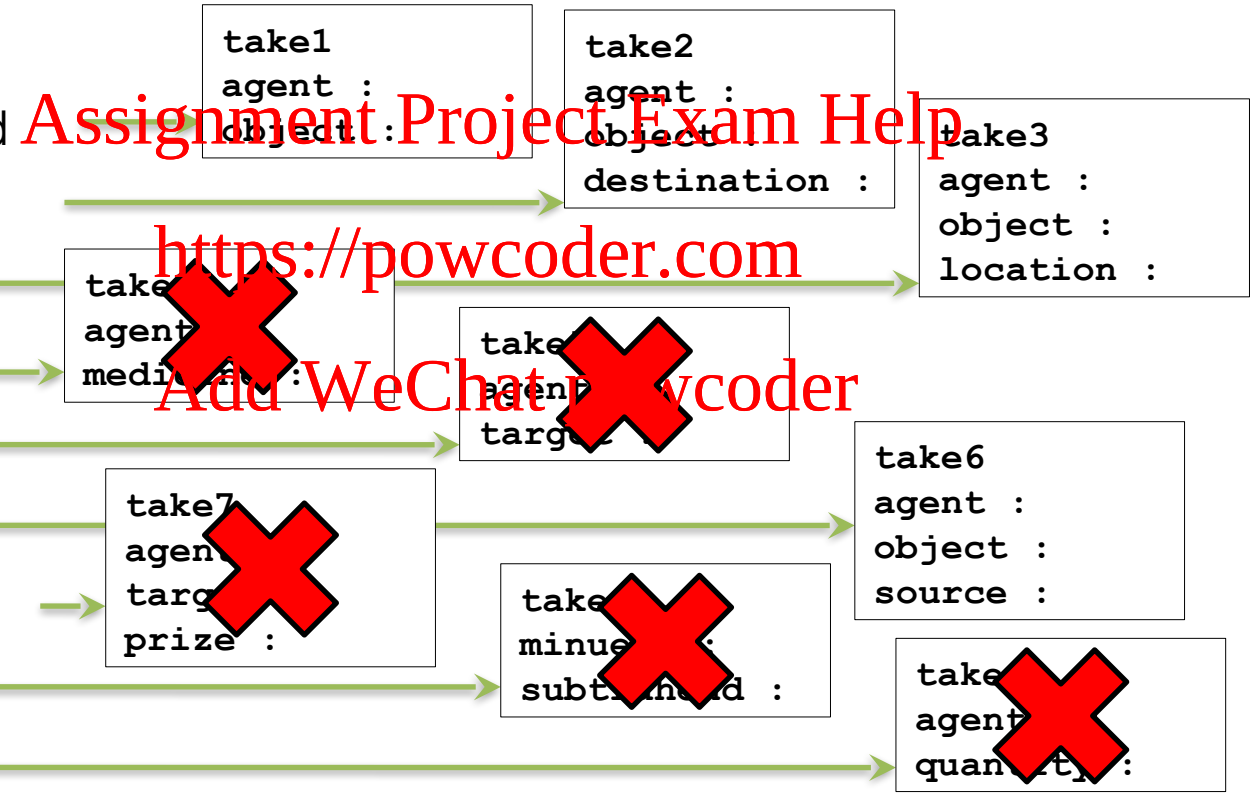

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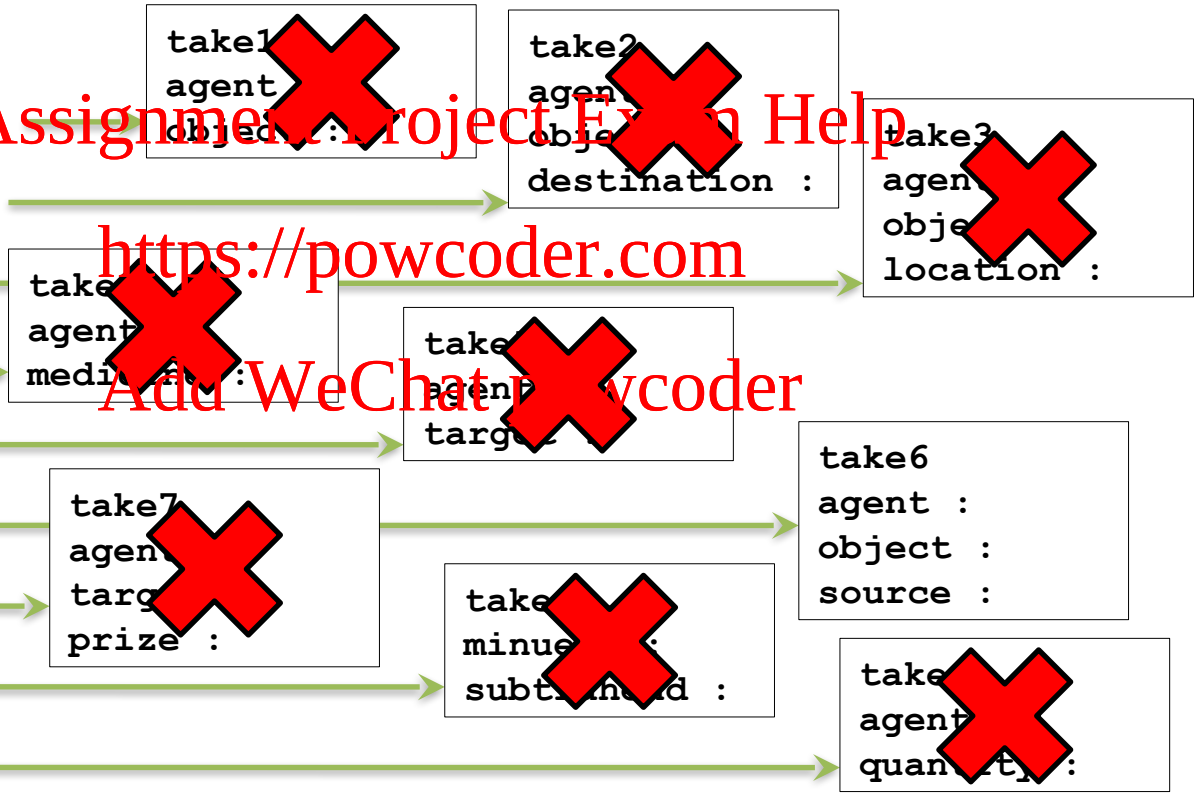

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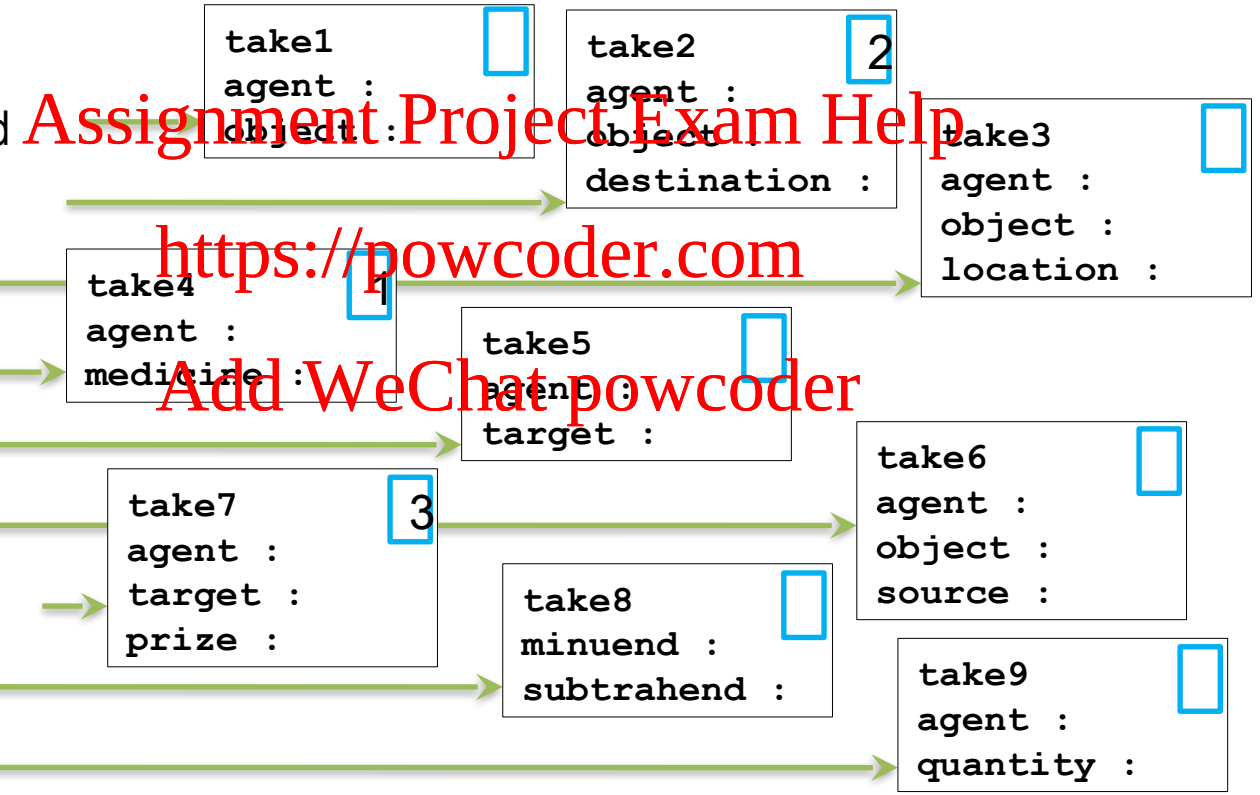
Use the thematic role frames below to identify which sentence instantiates which meaning of 'take'.

1. I took an aspirin for my headache.
2. I took my briefcase to work today.
3. I took the casino for $5 million.

take. *verb.* /tāk/

- to reach for and hold
- to bring or transport
- to remove
- to medicate
- to capture
- to steal
- to cheat or swindle
- to subtract
- to measure



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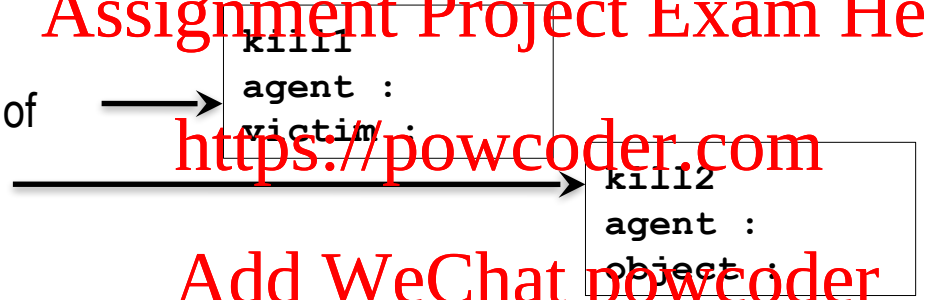
Sentence 1: A serious earthquake killed 25 people in Lower Slabovia.

Sentence 2: The President of Lower Slabovia killed 25 proposals for earthquake prediction.

kill. *verb.* /kil/

- to cause the death of
- to put an end to



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Assignment

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

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To recap…

- Thematic role systems
- Resolving ambiguity
- Leveraging constraints

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