

? - countries (N, C, P, A, G, CP) $\wedge P > 60,000,000$

\wedge City (G, C, P, C, P, ...) \wedge Pop > 0.75 * P

Name	code	pop	area	cap	cap_a
Berlin	D	3550000	35000	Berlin	Berlin
:	:	:	:	:	:

City

Name	Prov	loc	Pop	log	Lat
Berlin	Berlin	D	3.5	.	.

$(N/Berlin, C/D, P/3550000, A/35000, G/Berlin, CP/Berlin)$
 ~~$(N/Paris, C/F, P/2100000, A/105000, G/Paris, CP/Paris)$~~

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Family example:

Signature person/1

alice/f0

parent/2

john/f0

name/2

e.g. \Rightarrow person (alice)

parent (alice, john)

name (alice, "Alice")

?- encompasses("R", "Asia", X)

answer: X/80

?- encompasses("R", "Asia", X)

- X/1
- X/30
- X/200
- X/"A"
- X/"b|a|b|a|b|a"
- ⋮

UNSAFE!

include by hand

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?- encompasses("R", C, -)

- C/"Europe"
- C/"Asia"

restrict the possible acts to the 5 objects

?- encompasses("R", C, -) ^ contains(C, -)

- C/"America"
- C/"hehehe"
- C/"mrg"

~~C/8~~
~~C/"b|a|b|a|b|a"~~ "unintended answers"

Apr 15-11:35

$$\exists x \left(\underbrace{\forall y: p(y)}_{\text{bound}} \right) \wedge q(x)$$

bound
free
bound

$$\exists x \left(\forall y p(y) \right) \wedge q(x)$$

all terms & props

$$\exists x \left(\forall y (p(y) \wedge q(x)) \right)$$

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