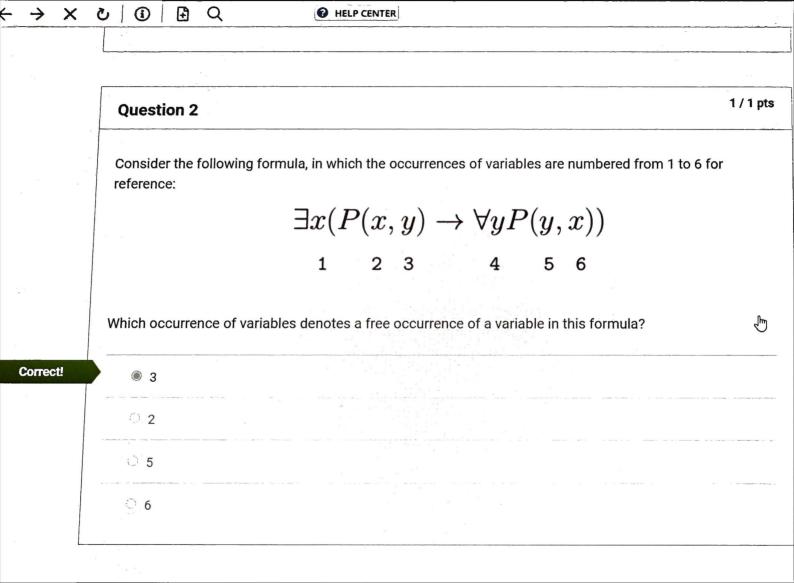
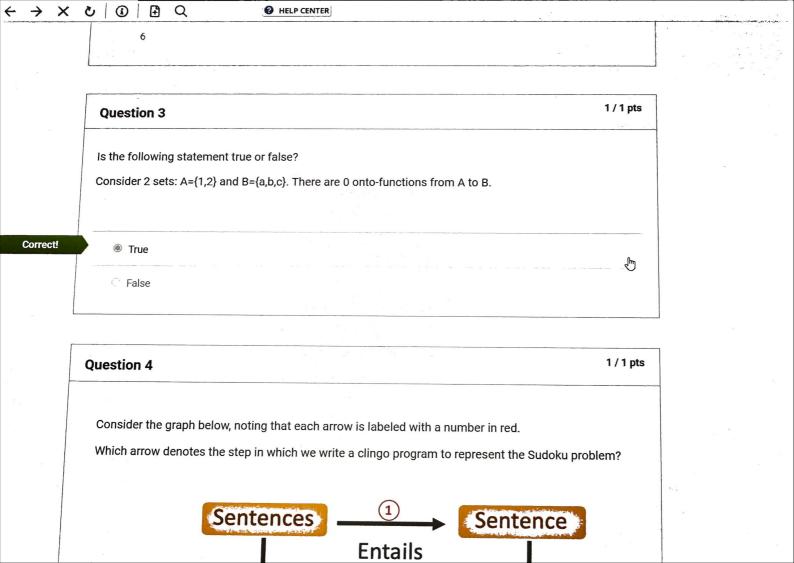
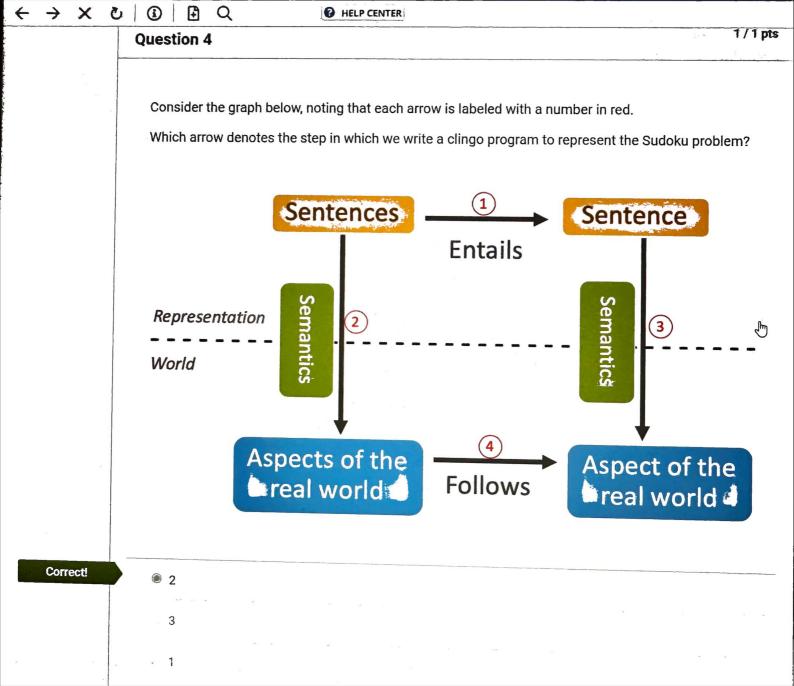
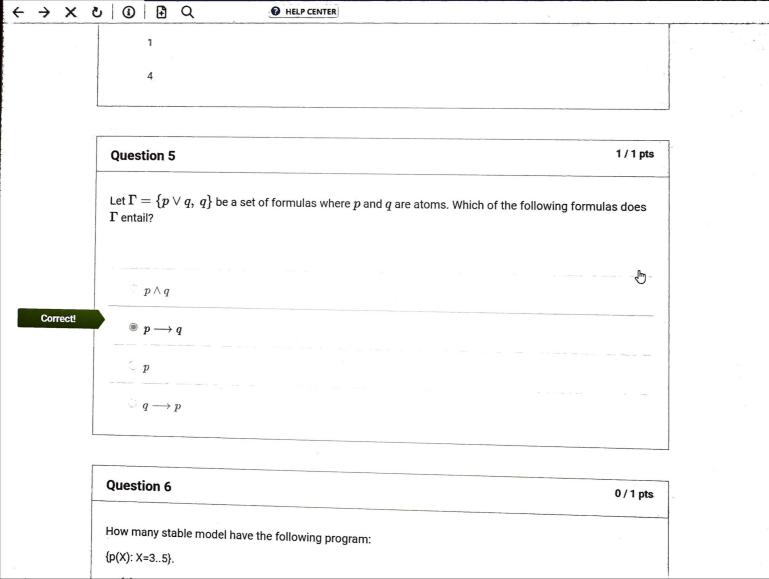


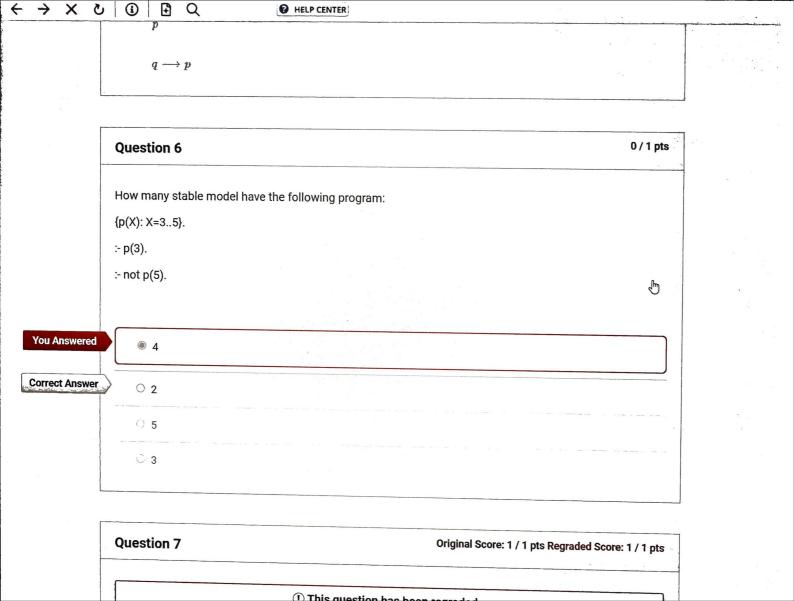
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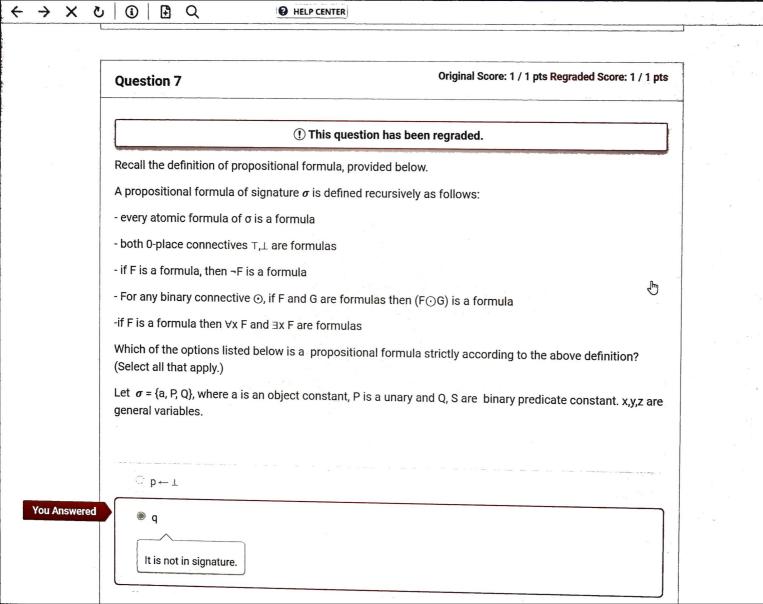


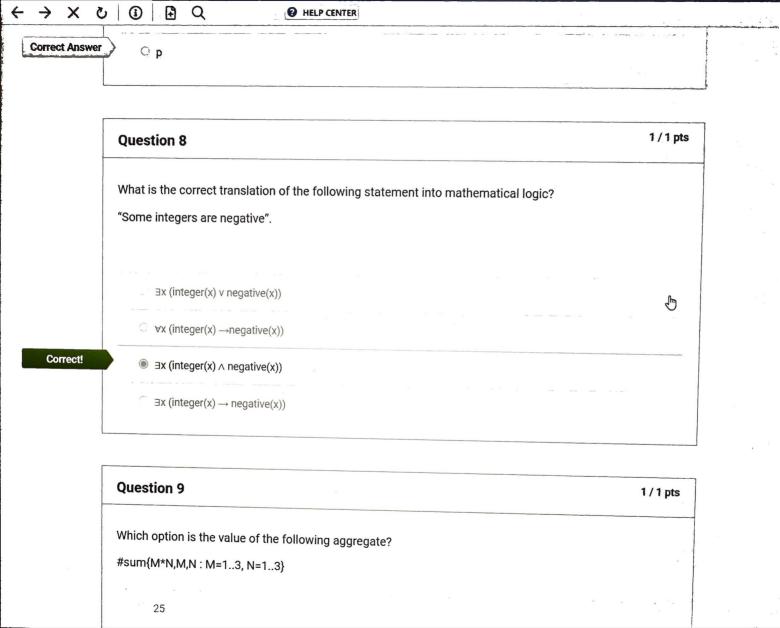


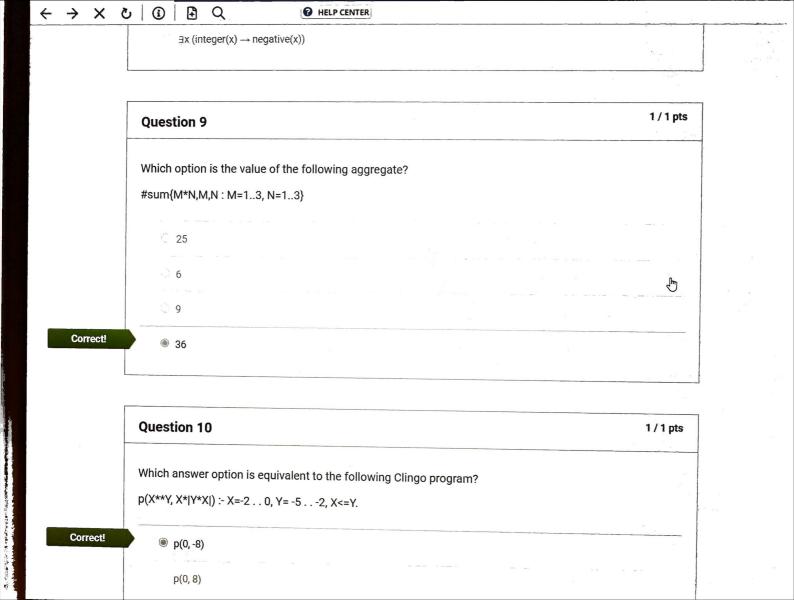


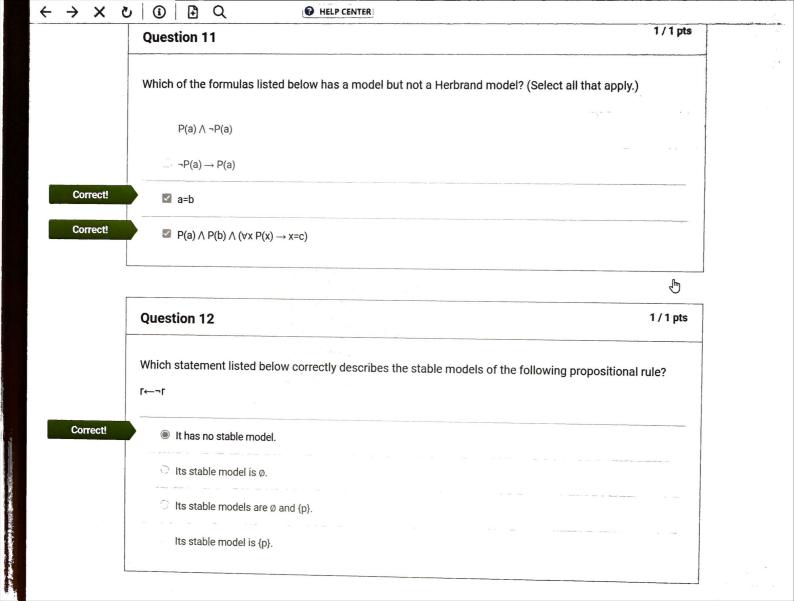












Is the following statement true or false? If a propositional program contains a rule of form F ← ⊥ then removing that rule doesn't change its stal models. True False Question 14 Which option listed below shows all of (and only) the local variables in the following clingo program? {q(I,J): J=12}:-I = 13. Both I and J Both I and J	estion 13		1 / 1 pt
models. True False Question 14	ne following statement true or f	alse?	
Question 14 Which option listed below shows all of (and only) the local variables in the following clingo program? {q(I,J): J=12}:-I = 13. Both I and J	oropositional program contains lels.	s a rule of form F \leftarrow \perp then removing that rule does	n't change its stable
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{q(I,J): J=12} :- I = 13. ☐ Both I and J ■ J	stion 14		1/1 _. pt
{q(I,J): J=12}:-I=13. ○ Both I and J ■ J		A series to the series of the	· · · · · · · · · · · · · · · · · · ·
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© Both I and J	h option listed below shows all	l of (and only) the local variables in the following o	lingo program?
• J		l of (and only) the local variables in the following o	lingo program?
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PO NO.): J=12} :- I = 13. Both I and J		lingo program?
`I): J=12} :- I = 13. Both I and J		lingo program?

Question	15
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1 / 1 pts

What is the value of the following aggregate when n = 6? #count{X*Y:X=2..n, Y=2..n, X*Y <=n}

3

25

② 2

Correct!

could be the integer in the interval of 2 to 6, and the same for Y, however, not all of the them are the correct values because of the condition X*Y <=6.

Enumerate the value of X and Y to satisfy the condition and we can get (X, Y) to be (2,2), (2, 3), (3, 2). However, the value of X*Y when (X, Y) is (3, 2) is equal to (2,3), so we only need to count one of them, and

By placing n = 6 into the rule, we can get $\#count\{X*Y:X=2..6, Y=2..6, X*Y <=6\}$. The potential value of X

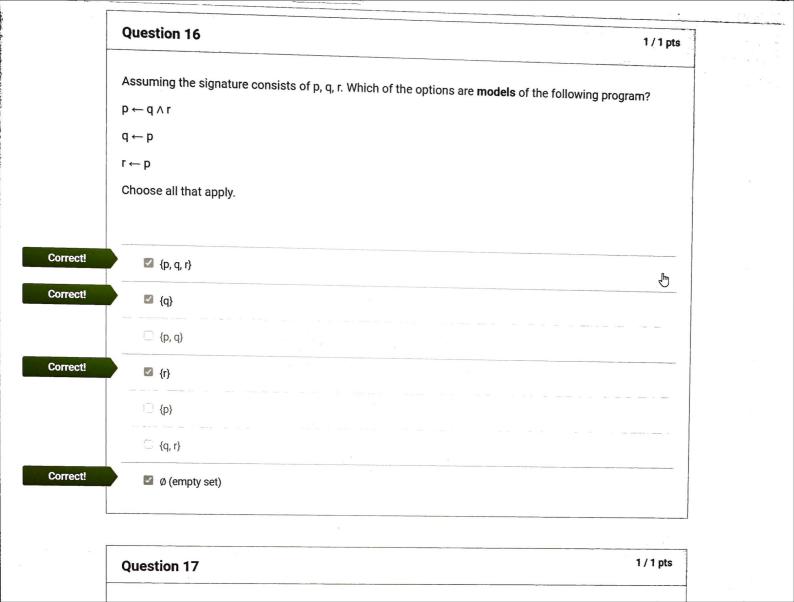
so we get the return value to be 2.

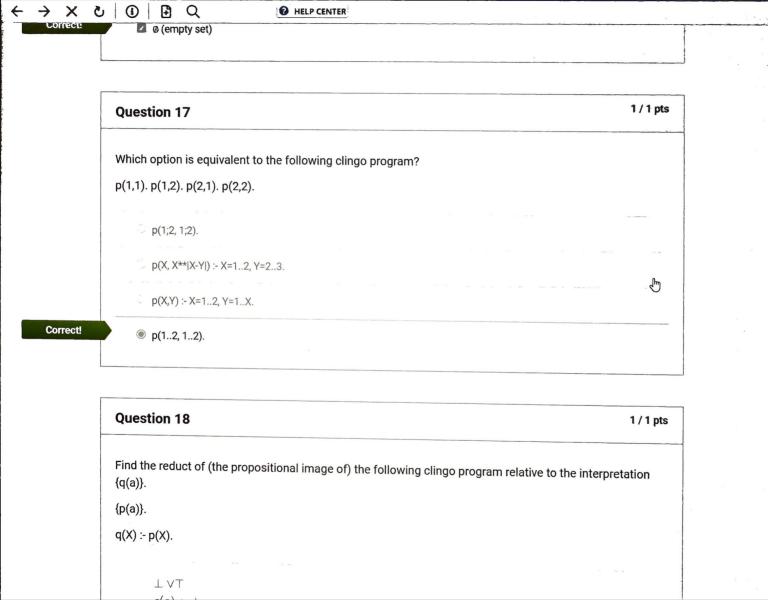
Question 16

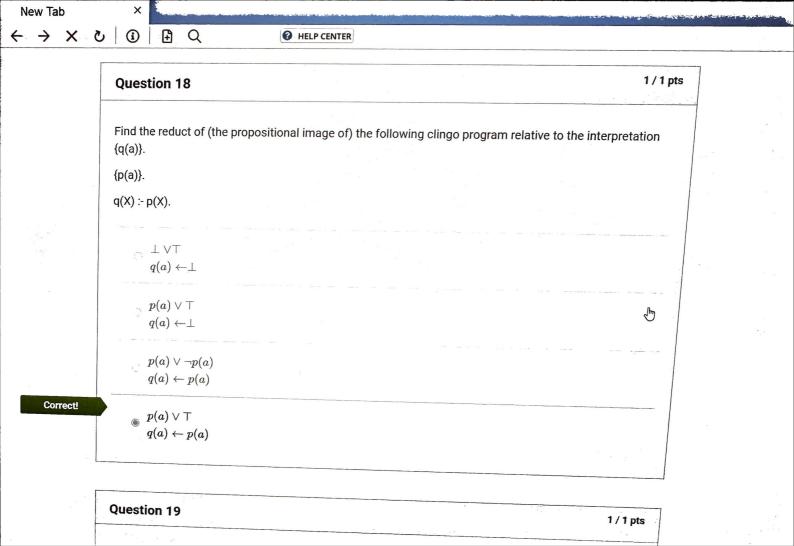
 $p \leftarrow q \wedge r$

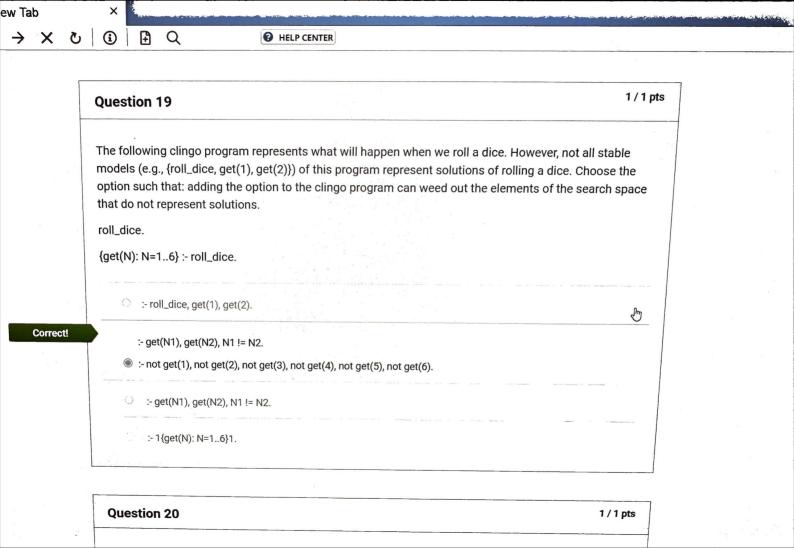
1 / 1 pts

Assuming the signature consists of p, q, r. Which of the options are **models** of the following program?









- not get(1), not get(2), not get(3), not get(5), not get(6).
 get(N1), get(N2), N1!= N2.
 1{get(N): N=1..6}1.
- 1/1 pts **Question 20** In Hamiltonian Cycle problem, we use "edge(X,Y)" to represent that "there is a directed edge from X to Y^{*} . and use "in(X,Y)" to represent that "edge from X to Y is in the Hamiltonian cycle". Then which option is represented by the following clingo rule? $1\{in(X,Y): edge(X,Y)\}1: -node(Y).$ Every node is reachable. For each node Y, we choose exactly 1 edge of it to be in the Hamiltonian cycle. Every node in the graph has exactly 1 outgoing edge. Correct! Every node in the graph has exactly 1 incoming edge.