**Heads and Legs**

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C#

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#Description

Everybody has probably heard of the animal heads and legs problem from the earlier years at school. It goes:

“A farm contains chickens and cows. There are x legs and y heads. How many chickens and cows are there?”

Where x <= 1000 and y <=1000

#Task

Assuming there are no other types of animals, work out how many of each animal are there.

Return a tuple in Python - (Heads, Legs) and an array list - [Heads, Legs]/{Heads, Legs} in all other languages

If either the heads & legs is negative, the result of your calculation is negative or the calculation is a float return "No solutions" (no valid cases).

In the form:

(Heads, Legs) = (72, 200)

VALID - (72, 200) => (44 , 28)

(Chickens, Cows)

INVALID - (72, 201) => "No solutions"

However, if 0 heads and 0 legs are given always return [0, 0] since zero heads must give zero animals.

There are many different ways to solve this, but they all give the same answer.

You will only be given integers types - however negative values (edge cases) will be given.

Happy coding!

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-------otras soluciones---------------------

public static object Animals(int heads, int legs)

{

if (legs % 2 != 0)

return "No solutions";

int cows = legs / 2 - heads;

int chickens = heads - cows;

return (cows < 0 || chickens < 0) ? (object)"No solutions" : new int[2] { chickens, cows };

}

public static object Animals(int heads, int legs)

{

for (int chicken = 0; chicken <= heads; chicken++)

{

if (chicken \* 2 + (heads - chicken) \* 4 == legs)

return new int[2] { chicken, heads - chicken };

}

return "No solutions";

}