



Question

A programmer has been asked to write a program which asks the user to enter a number. The program will double the number if it is greater than 0, will multiply the number by -1, if it is negative, and will add 100 to the number if it is 0.

Write an algorithm in pseudocode which satisfies this request.

Answer



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Answer

There are always different ways to solve a problem. This algorithm is just an example. What is important is that the logic is correct!

LOGIC:

- Ask the user to enter a number
- Cast to integer
- Store in variable
- If variable contains number greater than 0, output (number * 2)
- If variable contains number less than 0, output (number * -1)
- Otherwise output (number + 100)

EXAMPLE ALGORITHM:

```
number = input("Enter a number: ")
number = int(number)
if number > 0
    print(number * 2)
elseif number < 0
    print(number * -1)
else
    print(number + 100)
endif
```