Multiple in interval   X36596_en

Write a function *multiple_in_interval*(*a,b,x*) that given three integers *a*, *b*, and *x*, returns `True` if the interval $[a, b]$ contains a number that is multiple of *x*, and `False` otherwise. We are guaranteed that all three numbers *a*, *b*, and *x* will be strictly greater than zero.

Sample session

```
>>> multiple_in_interval(5, 10, 2)
True
>>> multiple_in_interval(10, 5, 2)
False
>>> multiple_in_interval(10, 10, 2)
True
>>> multiple_in_interval(51, 58, 5)
True
>>> multiple_in_interval(50, 55, 7)
False
>>> multiple_in_interval(100, 180, 92)
False
>>> multiple_in_interval(5, 10, 2) and (3>2)
True
```

Observations

If you want to test your program locally, remember to include the following lines at the end of the file:

```
if __name__ == "__main__":
    import doctest
    doctest.testmod(verbose=True)
```

Problem information

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