
Guai Lists

X45171_en

We say that a list f is n -guai if all the elements in f that are in positions multiples of n are themselves multiples of n . For example, $f = [0, 1, 2, 3, 4, 5, 10, 10, 10, 10, 25, 11]$ is 5-guai, because in positions 0, 5 and 10 (which are multiples of 5) the elements $f[0] = 0$, $f[5] = 5$, and $f[10] = 25$, are also multiples of 5. Instead, $f = [0, 1, 2, 3, 4, 8]$ is not 5-guai because in position 5 which is multiple of 5 there is an 8 that is not multiple of 5.

Implement the function `is_n_guai(f, n)` that given a list f of non-negative integers and an integer n greater than zero returns boolean `True` if f is n -guai and `False` otherwise.

Sample session

```
>>> is_n_guai([0,1,2,3,4,5,10,10,10,10,25,11],5)
True
>>> is_n_guai([0,1,2,3,4,8],5)
False
>>> is_n_guai([2,2,4,8,10,12],2)
True
```

Problem information

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