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**Sum of digits****X51136\_en**

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Design the function *sum\_dig*(*f*, *k*, *n*) that, given a list *f* of non negative integers, a non negative integer *k* and an integer *n*, returns a list with the first *k* numbers in *f* whose digits add up more than *n*. If *f* does not have *k* numbers holding this property, the function will return the empty list.

It's mandatory to use the function *sumadigitos*(*num*) below to calculate the sum of digits:

```
def sumadigitos(num):  
    return sum([int(i) for i in list(str(num))])
```

**Sample session**

```
>>> sum_dig([10, 50, 56, 71, 999, 42, 83, 93, 27, 83, 27], 2, 15)  
[]  
>>> sum_dig([44, 401, 43, 0, 1, 0, 68, 22, 58, 88], 5, -3)  
[44, 401, 43, 0, 1]  
>>> sum_dig([3, 0, 3, 1, 2, 5], 3, 2)  
[3, 3, 5]  
>>> sum_dig([3, 4, 5], 3, 3)  
[]  
>>> sum_dig([10, 2, 73, 66, 140, 960, 54, 83, 97, 14, 53], 4, 6)  
[73, 66, 960, 54]  
>>> sum_dig([1,2,3], 0, 1)  
[]
```

**Problem information**

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Generation : 2025-10-20 11:27:31

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