Telerik Academy

Telerik Academy Alpha 2017-2018 - JavaScript Entry Exam

Task 3 - Hops

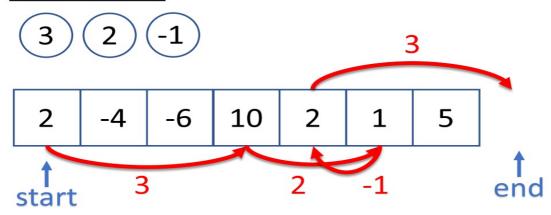
You recently got yourself a new pet - a **bunny** named Telerik. He is a fluffy cutie that is always hungry. So, in order to combat his constant craving, you let him out in your garden to eat carrots.

Your garden is a **narrow path of planted carrot rows**, each row can have **one or more** carrots. These carrots can be either **good** (represented by a positive integer) or **bad** (represented by a negative integer). An example for a field with carrots would be: **1 3 -6 7 4 1 12**

If Telerik eats **good** carrots, that's fine, but if he eats **bad** ones, his tummy starts hurting and he throws those up. So in the end, the bunny could either have eaten some carrots (**positive output**), or he is even more hungry (**negative output**).

- Telerik is a **smart** bunny. He can follow directions. The directions you give him are a **sequence of integers**, each of which tells him how many hops to make. If the integer is **positive**, he hops to the right, if the integers is **negative**, he hops to the left. An example of a sequence of directions is **3 2 -1**.
- He can also process **several sequences** of directions. Another example of such sequence is **2 -4 2**. As you can see in this example, the bunny stops hopping only after reaching a row he has already visited or if he gets out of the path with carrots. So the given directions can be repeated several times.

Sequence 1



Eaten1: 2+10+1+2 = 15

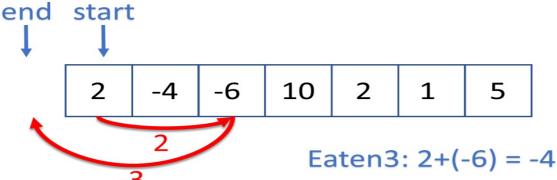
Sequence 2





Sequence 3





Input

- The input will be an array of strings
- The first element will be the field with carrots numbers separated with ", " (comma and space).
- The second element will be **M** the number of directions to try.
- The next **M** elements of the array will be numbers, separated with ", "(comma and space), representing the directions themselves.

Output

• The output should contain the maximal number of carrots, that the bunny can collect and eat using one of the directions sets.

Constraints

- The numbers in the field will be in the range [1..10000] inclusive.
- Each of the numbers in the field or in the directions will be in the range [-1000..+1000] inclusive.

- M will be between in the range [1..500] inclusive.
- Each set of directions will contain at most 100 numbers.

Submit in BGCoder.com

• You should submit a function wrapping your solution

```
function solve(args){
  // args is the input in the form of an array provided by BGCoder
  // your code goes here
}
```

Examples

Input	Output
2, -4, -6, 10, 2, 1, 5	15
3	
3, 2, -1	
2, 2, -4	
2, -3	