Submission

ID	DATE	PROBLEM	STATUS	CPU	LANG
	TEST CASES				
4790450	12:11:50	Coloring Socks	✔ **Accepted**	0.08 s	Python 3
	✔✔✔✔✔✔✔✔✔				

Submission contains 1 file: download zip archive

FILENAME	FILESIZE	SHA-1 SUM	
color_260621270.py	788 bytes	`c21ab7f4122b86b78bbb71bd5ac2dfede9209637`	download

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color_260621270.py

```
 1 # split takes the list of numbers and the 2nd and 3rd inputs
 2 # the first while loop acts as a for loop for arrays as python only has
 3 # for each loops. then because the list gets sorted, one can start at
 4 # the very end and compare that to the max going down
 5
 6 def split(numbers, c, k):
 7   s = len(numbers)
 8   washes = 0
 9   load = 1
10   lower = 0
11   numbers = sorted(numbers)
12
13   if(c >= s): return 1
14   while lower < len(numbers):
15     upper = lower + c - 1
16     if upper >= s: upper = s - 1
17     for x in numbers:
18       if numbers[upper] - numbers[lower] <= k:
19         washes += 1
20         lower = upper + 1
21         break
22       upper -= 1
23   return washes
24
25 variables = input().split()
```

```
c = int(variables[1])
k = int(variables[2])
sock_diff = input().split()
print(split(list(map(int, sock_diff)), c, k))
```

Submission

ID	DATE	PROBLEM	STATUS	CPU	LANG
	TEST CASES				
4790482	12:15:42	Flexible Spaces	✔ **Accepted**	0.02 s	Python 3
	✔✔✔✔✔✔✔✔✔✔✔✔✔✔				

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FILENAME	FILESIZE	SHA-1 SUM	
flexible_260621270.py	648 bytes	`9d58c521fb573cc4fc994c3bfaff75d1e54768f1`	download

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flexible_260621270.py

```
 1 # split takes the list of numbers and the 2nd input, the width
 2 # the program proceeds to take the difference between every single element
 3 # and every other element. the result will then have the 0 removed,
 4 # sorted and printed
 5
 6 def split(numbers, w):
 7   s = len(numbers)
 8   numbers.append(0)
 9   numbers.append(w)
10   numbers = sorted(numbers)
11   lower = 0
12   mylist =[]
13   for x in numbers:
14     for y in numbers:
15       mylist.append(abs(y-x))
16   mylist = list(dict.fromkeys(mylist))
17   mylist.remove(0)
18   return sorted(mylist)
19
20 variables = input().split()
21 w = int(variables[0])
22 num_line = input().split()
23 print(*split(list(map(int, num_line)), w), sep = ' ')
```

Submission

ID	DATE	PROBLEM	STATUS	CPU	LANG
	TEST CASES				
4790478	12:15:07	Radio Commercials	✔ **Accepted**	0.07 s	Python 3
	✔✔✔✔✔✔✔✔✔✔✔				

Submission contains 1 file: download zip archive

FILENAME	FILESIZE	SHA-1 SUM	
commercials_260621270.py	568 bytes	`ed2b4f0f563014a496be0f24fdb84e3e387e048f`	download

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commercials_260621270.py

```
 1 # https://en.wikipedia.org/wiki/Maximum_subarray_problem
 2 # "We can compute the maximum subarray sum ending at position i for all positions i
 3 # by iterating once over the array. As we go, we simply keep track of the maximum sum
 4 # we've ever seen."
 5
 6 def max_subarray(numbers):
 7   best_sum = 0  # or: float('-inf')
 8   current_sum = 0
 9   for x in numbers:
10     current_sum = max(0, current_sum + x)
11     best_sum = max(best_sum, current_sum)
12   return best_sum
13
14 p = int((input()).split()[1])
15 profit = list(map(lambda z: int(z) - p, input().split()))
16 print(max_subarray(profit))
```