CSES

CSES Problem Set

Stick Lengths

Submission details

Task:	Stick Lengths
Sender:	razs
Submission time:	2024-12-11 15:14:18 +0200
Language:	Python3 (PyPy3)
Status:	READY
Result:	ACCEPTED

Test results

test	verdict	time	
#1	ACCEPTED	0.04 s	»
#2	ACCEPTED	0.04 s	»
#3	ACCEPTED	0.04 s	»
#4	ACCEPTED	0.09 s	»
#5	ACCEPTED	0.14 s	»
#6	ACCEPTED	0.15 s	»
#7	ACCEPTED	0.04 s	»
#8	ACCEPTED	0.04 s	»
#9	ACCEPTED	0.04 s	»
#10	ACCEPTED	0.04 s	»
#11	ACCEPTED	0.04 s	»
#12	ACCEPTED	0.10 s	»

Code

```python
def minimalis_koltseg_azonos_botokhoz(botok_szama, botok):
    # Botok rendezése
    botok.sort()

    # Medián kiszámítása
    median = botok[botok_szama // 2]

    # Költség számítása
    koltseg = sum(abs(bot - median) for bot in botok)

    return koltseg

# Bemenet
botok_szama = int(input())
botok = list(map(int, input().split()))

# Megoldás meghívása
eredmeny = minimalis_koltseg_azonos_botokhoz(botok_szama, botok)

# Kimenet
print(eredmeny)

```

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Test details

Test 1

Verdict: ACCEPTED

input
10 1 1 1 1 1 1 1 1 1 1

correct output
0

user output
0

Test 2

Verdict: ACCEPTED

input
10 1 4 7 8 10 3 2 5 6 9

correct output
25

user output
25

Test 3

Verdict: ACCEPTED

input
10 576256620 793841203 607061968 ...

correct output
1758621869

user output
1758621869

Test 4

Verdict: ACCEPTED

input
200000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 ...

correct output
0

user output
0

Test 5

Verdict: ACCEPTED

input
200000 138511 36781 76004 108195 1037...

correct output
10000000000

user output
10000000000

Test 6

Verdict: ACCEPTED

input
200000 881618352 946937729 472268057 ...

correct output
49955518418712

user output
49955518418712

Test 7

Verdict: ACCEPTED

input
5 1 2 3 4 5

correct output
6

user output
6

Test 8

Verdict: ACCEPTED

input
1 1

correct output
0

user output
0

Test 9

Verdict: ACCEPTED

input
7 3 4 4 4 4 4 4

correct output
1

user output
1

Test 10

Verdict: ACCEPTED

input
5 1 1 1 2 2

correct output
2

user output
2

Test 11

Verdict: ACCEPTED

input
5 1 4 5 100 100

correct output
195

user output
195

Test 12

Verdict: ACCEPTED

input
199999 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 ...

correct output
14999750001

user output
14999750001