



trivialbox ▾

IEEEExtreme 10.0 &gt; Full Adder

# Full Adder

locked

by IEEEExtreme

Problem

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Submitted 4 days ago • Score: 52.00

Status: Terminated due to timeout

✓ Test Case #0  
✓ Test Case #3  
✓ Test Case #6

✓ Test Case #1  
✓ Test Case #4  
⌚ Test Case #7

✓ Test Case #2  
✓ Test Case #5  
⌚ Test Case #8

## Submitted Code

Language: PyPy3

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```
1 from collections import OrderedDict
2
3 def to_other_base(base, symbols, number):
4     result = ""
5     while number > 0:
6         number, mod = divmod(number, base)
7         result = symbols[mod] + result
8     return result
9
10
11 def to_base10(base, symbols, number):
12     total = 0
13     for index, d in enumerate(reversed(number)):
14         total += (base**index) * symbols[d]
15     return total
16
17
18 base_input, symbols_input = input().split()
19 base = int(base_input)
20 symbols = {
21     c: i
22     for i, c in enumerate(symbols_input)
23 }
24
25 adder1 = input()
26 adder2 = input()
27 bar = input()
28 input()
29 max_characters = len(bar)
30
31 first_adder = to_base10(base, symbols, adder1.strip())
32 second_adder = to_base10(base, symbols, adder2.strip()[1:].strip())
33 result = first_adder + second_adder
34
35 reversed_symbols = {
36     i: c
37     for c, i in symbols.items()
38 }
39
40 result = to_other_base(base, reversed_symbols, result)
41
42 print(base_input, symbols_input)
43 print(adder1)
44 print(adder2)
45 print(bar)
46 format_str = "{:>}" + str(max_characters) + "}"
47 print(format_str.format(result))
48
```

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