Assignment-1 Feedback

Dear students,

As you can see, we have given a comment upon your grade. Please refer to the grading standards below,

Task	notation	content	mark
Task-1	g	Sign	10
	f	Exponent calculating	25
	e	Two Complement in exponent	10
	d	Mantissa calculating	25
	c	Multiply all parts and get result	5
Task-2	b	Judge whether MiniFloat is integer	5
	a	Loop and count to check each bit sequence	20

We used three JUnit tests to evaluate your method:

```
00100110 => 28
10100110 => -28
11111110 => -0.875
```

Here are some major mistakes in this assignment,

- f/d: some students have problems in calculating the exponent part or mantissa. You should regard it as binary converting problems. For example, $111 = 2^2 + 2^1 + 2^0$; on the other hand, $0.111 = 2^{-1} + 2^{-2} + 2^{-3}$. Please be careful of the index and its respective exponent when doing this calculation. Also, for mantissa part, don't forget add 1 on it.
- e: many students ignore the complement issue in this assignment. The two's complement of an N-bit number is defined as the complement with respect to 2^N; in other words, it is the result of subtracting the number from 2^N. Please be careful of the N^{th} bit (in our case, judge whether the second bit of sequence is 1 or not), and then get relevant integer correctly.
- a: please follow our assignment instruction and make the output well-format. You should output both the integer minifloat, as well as the count of them.

Should you have any questions upon your grade, please argue and send email to csrbai@comp.polyu.edu.hk , with subject "COMP2021 Assignment-1", **before 3pm 7 Oct (Friday)**. Any argument after this due time will be ignored.

Best,
TA