Input (String)	Outcome (countVowels)	Boundaries
Null	throwsException	B_1 $(T_1 + T_2)$
Empty	0	B_2 $(T_4 + T_6)$ 4 more
one letter	one	B_3 $(T_7 + T_8)$
upper case	multiple	
lower case		

multiple: same vowel vs mixed vowels

VC
LC
mixed case
duplicates
order - beginning
- middle
- end

Testcase summary:

Exception	–	1
0	–	3
one	–	4
many	–	3

} nice balance

Testcases

B_1	1	null	→ Exception	
	2	''	→ 0	
	3	'A'	→ 1	upper vs lower case and 0 vs one
	4	'B'	→ 0	
B_2	5	'a'	→ 1	
	6	'b'	→ 0	
B_3	7	'aBA'	→ 2	(mixed case, order beginning + end)
	8	'a B'	→ 1	(mixed case, order beginning)
	9	'Bat'	→ 1	(mixed case, middle)
	10	'aaa'	→ 3	(lower case, duplicates)
	11	'EENBEAE'	→ 5	

or even just 'EAE' → 3 (upper case, mixed vowels)

Input (int) | Outcome | Boundaries

- negative
- positive
  - div by 3 only
  - div by 5 only
  - div by 3 and 5
  - not div by either
- zero

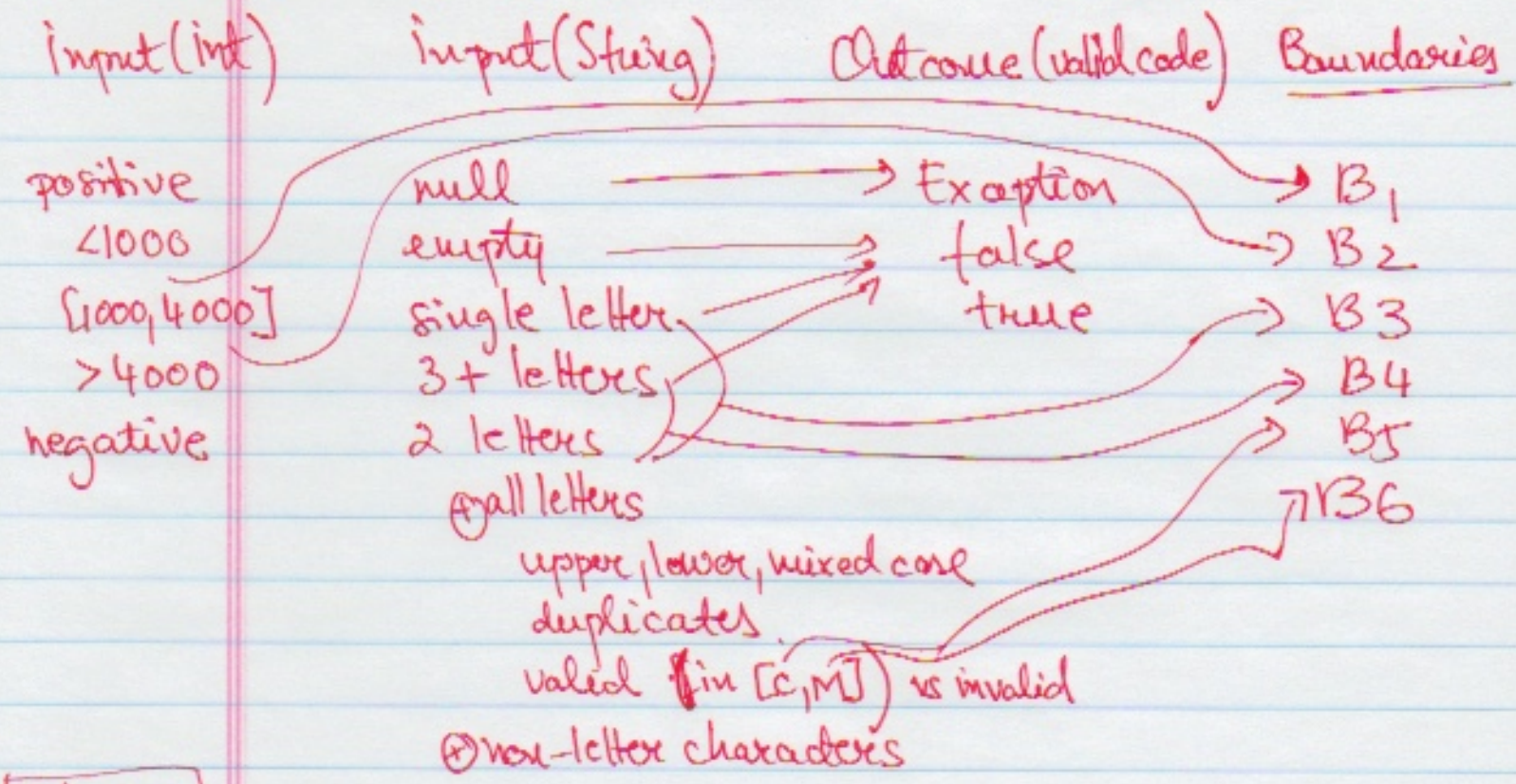
'Fizz'
'Buzz'
'Fizz-Buzz'
'' (empty string)

B_1 (T_2+T_3)
B_2 (T_2+T_4)
B_3 (T_1+T_3)
B_4 (T_5+T_6)

Testcases

1. (4) → ''
2. (6) → 'Fizz' → B_3
3. (5) → 'Buzz' → B_1 → B_2
4. (7) → ''
5. (30) → 'Fizz-Buzz' → B_4
6. (31) → ''
7. (-20) → 'Buzz' (negative)
8. (0) → 'Fizz-Buzz' (or whatever prog decides)

→ special case, assumptions must be clarified



Test cases

1	2000, null	—	exception	(null)
2	2732, empty	—	false	(empty)
3	3825, 'C'	—	false	(single letter)
4	3134, 'CMC'	—	false	(3+ letters)
5	1000, 'CM'	—	true	B1
6	999, 'CM'	—	false	B5
7	1876, 'BM'	—	false	
8	2427, 'CN'	—	false	B6
9	4000, 'FG'	—	true	B2
10	4001, 'FD'	—	false	
11	3333, 'eh'	—	??	→ lower case
12	2345, 'Cw'	—	??	→ mixed case
13	3210, 'JJ'	—	true	→ duplicates
14	3000, 'C!'	—	false	→ non-letter
15	-2000, 'CM'	—	false	→ negative