

# 1-layer Bidirectional Anaylyze Result

Sentence	Ground Truth	Analysis
lines with a capital letter before a character followed by a lower-case letter in them	$([<CAP>]).*(..*[<LOW>].)*.*$	Almost Correct
items with a character preceding a numeral .	$(..*[<NUM>].)*.*$	Ground Truth Error, Most prediction $(.)+([<NUM>]).*$ which is actually <b>correct</b>
lines with 1 or more character , or ending with the string $<M0>$	$((.)+)((.*)((<M0>)))$	Half. Error examples: $((.)+)((.*)((<M0>)))(.)*$ $((.)+)((.*)((<M0>)))$
lines with words numbers or letters	$\backslash\backslash b([<NUM>]) ([<LET>])\backslash\backslash b$	Correct
items with an upper case letter or vowel preceding a numeral .	$(([<VOW>]) ([<CAP>])).*([<NUM>]).*$	Correct
lines ending with only a letter at least once	$((.*)((<LET>)))$	Correct
lines with the string $<M0>$ or number before string $<M1>$	$(.*<M0>.* ([<NUM>]).*<M1>.*)$	<b>All incorrect</b> Most predictions: $((<M0>) ([<NUM>])).*(<M1>)*$
lines that contain a character followed by a letter , at least twice	$((.){2,}).*([<LET>]).*$	<b>All incorrect</b> Most predictions: $(..*[<LET>].)*{2,})$ . Ground truth doesn't make sense
lines with words with a character , vowel , or string $<M0>$	$\backslash\backslash b(.*)((<VOW>]) (<M0>)\backslash\backslash b$	Correct
lines containing a letter or string $<M0>$	$.*([<LET>]) (<M0>)*$	Before Overfitting, Almost Correct
lines with the string $<M0>$ containing only a lower-case letter	$((<M0>) ([<LOW>]))$	Ground Truth Error, Sentence Description doesn not match the Ground truth
lines which have the string $<M0>$ followed by a number before the string $<M1>$	$(<M0>.*[<NUM>].)*(<M1>)*$	Correct
lines containing the string $<M0>$ followed by either the string $<M1>$ , a letter , or a capital letter	$(<M0>)*((<M1>) ([<LET>]) ([<CAP>])).*$	Almost Correct Some Error examples: $((<M0>) ([<LET>]) (<M1>)).*([<CAP>]).*$

lines with a capital letter after a vowel at least zero times	<code>([&lt;VOW&gt;]).*</code> <code>([&lt;CAP&gt;]).*</code>	Almost Correct, but is unstable, which means it may be correct in this epoch, but it may be not in the next epoch
lines ending with a number after a vowel	<code>((.)*([&lt;VOW&gt;])).*</code> <code>([&lt;NUM&gt;]).*</code>	
lines containing a vowel or string <M0>	<code>.*([&lt;VOW&gt;]) </code> <code>&lt;M0&gt;.*</code>	Almost correct, some error: <code>\\b([&lt;VOW&gt;])(&lt;M0&gt;)\\b</code>
lines with a lower-case letter before a character	<code>([&lt;LOW&gt;]).*</code> <code>(.*.)*.*</code>	
lines containing both a lower-case and capital letter at least 3 times .	<code>([&lt;LOW&gt;].*</code> <code>&lt;CAP&gt;.*){3,}</code>	<b>Almost incorrect</b> Error examples: <code>(.*[&lt;LOW&gt;].*){3,}</code> , <code>([&lt;LOW&gt;]).*([&lt;CAP&gt;]){3,}).*</code> In ground truth, at least 3 three times, is modifying whole Sentence
lines containing a number after a vowel 5 or more times	<code>([&lt;VOW&gt;]).*</code> <code>(([&lt;NUM&gt;]){5,}).*</code>	<b>Almost incorrect</b> what <b>5 or more times</b> does modify ? Most Error Predictions: <code>(([&lt;VOW&gt;]){5,}).*([&lt;NUM&gt;]).*</code>
lines with words with a character followed by a letter	<code>(\\b.*</code> <code>[&lt;LET&gt;].*\\b)+</code>	Correct
lines with a lower-case letter before <M0>	<code>([&lt;LOW&gt;]).*([&lt;M0&gt;].*)*.*</code>	Ground truth is incorrect, most predictions are <code>([&lt;LOW&gt;]).*([&lt;M0&gt;]+).*</code> , which should be correct
lines that contain a number followed by a character , at least 4 times	<code>([&lt;NUM&gt;]).*([&lt;LET&gt;]).*{4,}).*</code>	<b>Almost incorrect</b> What <b>at least 4 times</b> should modify ? Most predictions are: <code>([&lt;NUM&gt;].*..*){4,}</code>
lines with string <M0> before letter , 2 or more times	<code>&lt;M0&gt;.*</code> <code>(([&lt;LET&gt;]){2,}).*</code>	Correct
lines with words ending in string <M0> before lower-case letter	<code>\\b(.*)(&lt;M0&gt;.*</code> <code>[&lt;LOW&gt;].*)\\b</code>	Most Correct, Where is the word scope ? Error Example: <code>(\\b(.*)(&lt;M0&gt;))\\b.*([&lt;LOW&gt;]).*</code>
lines with the string <M0> before string <M1> followed by string <M2>	<code>&lt;M0&gt;.*</code> <code>&lt;M1&gt;.*</code> <code>&lt;M2&gt;.*).</code>	Almost correct, but is unstable, which means it may be correct in this epoch, but it may be not in the next epoch
lines with with a letter followed by 2 or more of the string	<code>([&lt;LET&gt;].*</code> <code>&lt;M0&gt;.*){2,}</code>	Almost Correct

lines followed by a vowel before a capital letter	$([<LOW>].^* [ <VOW>].^*).^* ([<CAP>]).^*$	Ground truth doesn't make sense
lines having 1 of the following: the string $<M0>$ the string $<M1>$ or a letter before the string $<M2>$	$((<M1>)( <M1>)  ([<LET>])).^* (<M2>).^*$	Ground Truth does not make sense, most predictions: $((<M0>)( <M1>)([<LET>])).^*(<M2>).^*$
lines with lower-case letter before either character , vowel , or string $<M0>$	$([<LOW>]).^*((.)  ([<VOW>])  (<M0>)).^*$	Correct
lines with the string followed by either a character or a letter	$(<M0>).^*((.)  ([<LET>])  ([<VOW>])).^*$	<b>Ground truth does not make sense, but most predictions match ground truth</b>
lines that have 4 or more numbers	$.^*([<NUM>]){4,}.^*$	<b>Almost incorrect.</b> Most Predictions: $([<NUM>]){4,}$
lines with a character after a letter at least 5 times	$([<LET>]).^*((.) {5,}).^*$	What <b>5 or more times</b> modifies ?
lines starting with a lower-case letter with the string $<M0>$	$(([<LOW>])(.))^* (<M0>).^*$	It means <b>and</b> ? Most Correct
lines containing number before lower-case letter	$(.^[<NUM>].)^* ([<LOW>]).^*$	
lines starting with string $<M0>$ or either a number , character , or letter	$((<M0>)  (([<NUM>])(.)) ([<LET>]))(.)^*$	Correct, but is unstable, which means it may be correct in this epoch, but it may be not in the next epoch
lines ending with letter , zero or more times	$((.)([<LET>]))^*$	<b>Almost incorrect.</b> What <b>zero or more times</b> modifies ? most predictions: $((.)([<LET>]))^*$
lines which have a capital letter or a lower-case letter , 2 or more times	$(([<CAP>])  ([<LOW>]){2,})$	Correct
lines containing 3 or more vowels before a lower-case letter	$(([<VOW>]){3,}).^* ([<LOW>]).^*$	Correct
lines with words and zero or more of the string $<M0>$	$(\\b(<M0>)^*\\b).^* (.)^+$	<b>Almost incorrect</b> What does the Sentence means ?
lines with a lower-case letter before a character	$(([<LET>])  ([<LOW>])).^*((.)^+)$	Ground truth does not make sense. Most predictions: $([<LOW>]).^*(..^*).^*$ or $([<LOW>]).^*(..^*).^*$

lines with a letter before words with string <b>&lt;M0&gt;</b>	<code>(([&lt;LET&gt;]).*(\\b.*&lt;M0&gt;.*\\b)).*</code>	<b>Almost incorrect</b> , Most predictions: <code>(([&lt;LET&gt;]).*(\\b(&lt;M0&gt;)+\\b)).*</code>
lines with a lower-case letter preceded by either a vowel , the string or the string	<code>(([&lt;VOW&gt;])(&lt;M0&gt;)(&lt;M1&gt;)).*([&lt;LOW&gt;]).*</code>	Correct
lines starting in the string <b>&lt;M0&gt;</b> before a vowel	<code>(((&lt;M0&gt;)(.)).*(.[&lt;VOW&gt;]).*.*</code>	Correct
lines with the string <b>&lt;M0&gt;</b> followed by a vowel , a capital letter , or a lower-case letter	<code>(&lt;M0&gt;).*([&lt;VOW&gt;])([&lt;CAP&gt;])([&lt;LOW&gt;])).*</code>	Almost Correct
lines containing a vowel or string <b>&lt;M0&gt;</b>	<code>.*([&lt;VOW&gt;])(&lt;M0&gt;).*</code>	Almost Correct
lines containing a vowel preceding the string before the string	<code>([&lt;VOW&gt;].*&lt;M0&gt;.*).*(&lt;M1&gt;).*</code>	Correct
lines with only zero or more letters	<code>(([&lt;CAP&gt;])([&lt;LET&gt;]))*</code>	Ground truth does not make sense
lines with a vowel with a character	<code>(([&lt;VOW&gt;])(.*.))*</code>	What the Sentence means ? <b>and</b> ? Most prediction: <code>(([&lt;VOW&gt;]).*(.)).*</code>
lines having a capital letter before a number following a lower-case letter	<code>([&lt;CAP&gt;].*(&lt;NUM&gt;).*([&lt;LOW&gt;])).*</code>	Almost correct, but is unstable, which means it may be correct in this epoch, but it may be not in the next epoch
lines with the string <b>&lt;M0&gt;</b> before <b>&lt;M1&gt;</b> or <b>&lt;M2&gt;</b> or a lower-case letter	<code>(.*&lt;M0&gt;.*).*((&lt;M1&gt;)(&lt;M2&gt;)([&lt;LOW&gt;])).*</code>	<b>Almost incorrect</b> Most Predictions: <code>(&lt;M0&gt;).*((&lt;M1&gt;)([&lt;LOW&gt;])([&lt;LOW&gt;])).*</code>
lines with or without a vowel before a number	<code>(([&lt;VOW&gt;])*.*)*([&lt;NUM&gt;]).*</code>	Correct
lines with words and <b>&lt;M0&gt;</b> or lower-case letter	<code>\\b(&lt;M0&gt;)([&lt;LOW&gt;].*)\\b</code>	<b>All incorrect</b> Most predictions: <code>\\b(&lt;M0&gt;)([&lt;LOW&gt;])\\b</code> , What the sentence means ?
lines ending with a number	<code>(.*)((\\b[&lt;NUM&gt;]\\b))</code>	<b>All incorrect</b> Most predictions: <code>(.*)((.*[&lt;NUM&gt;].*), (.*)(([&lt;NUM&gt;])+))</code>
<b>All incorrect</b>		

lines with 2 or more numbers

`(.*[<NUM>].*){2,}`

Most predictions:

`([<NUM>]){2,}`