Some solutions to the 13 Feb 2019 Practise Quiz

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The theater over
there burned to the
ground last weekend.
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For problems 1-6, identify what is matched in the above text by the given regular expression. If there is a newline included in the answer, write it as a space.

1. /he|er/	he, he, er, er, he, he
2. /e..?t/	e t, eat, ed t
3. /t.*h/	th, there burned to th
4. /.\s+t/	e t, r t, d t, o t
5. /\w+?[er]/	The, the, ate, ove, the, re, bur, ne, the, gr, we, eke
6. /^.../	The

For problems 7-12, find a more compact way to represent the pattern snippet.

7. [a]*	a*
8. \A	^
9. [0-1]	[01]
10. ^\b\w	^\w
11. b{0,1}	b?
12. c{,}	c*

In the below, word means either a contiguous group of characters that are matched by `/\w/` or `/[a-z]/i`, take your pick.

13. Match all words in which the letter `a` appears exactly two times. (`a` was meant to be either capital or lower case, but period 6 was told that upper case A was not included). With the intended def, a possibility would be: `/\b([b-z]*a){2}[b-z]*\b/`. Note that the word boundary symbols must be there.

14. Match all string that could be a valid Othello move index (ie. string representations of the integers in [0,63]): Possibility: `/^(\d|[1-5]\d|6[0-3])$/`.

15. Match all strings that are at least four characters long: `/.{4,}/s`

For the next 5 questions, find repudiating counterexamples for:

16. Match all binary strings: `/\b[01]+/`

17. Match only the strings 0, 100, 101: `/^0|100|101$/`

18. Match all words with at least two vowels: `/\w*[aeiou]\w*[aeiou]\w*/`

19. Match even binary integer strings: `/^1\d*0$|^0$/`

20. Match on social security types of numbers, which have 3, 2, and 4 contiguous digits, separated by an arbitrary number of spaces and at most one minus sign:
    `/^\d{3}[ -]*\d\d[- ]*\d{4}$/`