Homework

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Determine a regular expression which will match on the appropriate strings or else will find the indicated matches.

Assumption: each string starts on a new line and no characters follow

21. Determine whether a string is either 0, 100, or 101. Careful!

```
/^(0|100|101)$/
```

22. Determine whether a given string is a binary string or not.

```
/^[01]+$/
```

23. Given a binary string, what regular expression determines whether the string is even?

```
/^.*0$/
```

24. Determine those words in the earlier text that have at least two vowels.

```
/\b\w*[aeiouy]\w*[aeiouy]\w*\b/
```

25. Given a string, determine whether it is a binary string, and if so, whether it is even (ie. a match on all even binary strings; otherwise fail to match).

```
/^[01]*0$/
```

26. Determine whether a given string is an even base 10 integer.

```
/^\d*[02468]$/
```

27. Determine all words in the prior text that end in a vowel.

```
/\b\w*[aeiouy]\b/
```

28. Determine whether a given string is a binary string containing 110 as a substring.

```
/^[01]*110[01]*$/
```

29. All strings with length at least one but at most three.

```
/^.{1,3}$/
```

30. Determine whether a string is a binary string that has the same number of 01 substrings as 10 substrings

```
/^((0[01]*0)|(1[01]*1))$/
```