

Q1-Q10 are worth 10 pts each. Your Answer MUST FIT IN THE LINES PROVIDED. PRINT YOUR ANSWERS IN UPPERCASE, except when regex requires lowercase.

Q1) What feature(s) from the Regex API corresponds to Context-Sensitive feature(s) from the Chomsky hierarchy?
Push-obun automaton' - alike DFA, but albud
to Use a Flack.
Q2) How does Regex API differ in the usage of Context-Sensitive feature(s) from its original interpretation from the Chomsky hierarchy?
Q3) How does the finite state automata accepting Regular languages differ from the machines that correspond to the remaining levels of the Chomsky hierarchy?
Finite state automata wes he "memory" and is limited by its states, only accepti
Regular languages. As compared to Twing Machines, it could accept a much larger of Which named level of the Chomsky hierarchy first introduces the possibility of remembering history? languages.
Q4) Which named level of the Chomsky hierarchy first introduces the possibility of remembering history?
level 2, context free.
Q5) What are six different categories of usage for the backslash character? Different examples of the same category will not be given additional credit. Category1:
Ascii Character
Category2:
class - chracter
Category3:
Special Character
Category4:
Anchor

NAME Category5:
Escaping
Category6:
Q6) What are five <i>different categories</i> of usage for the question mark character? Different examples of the same category will not be given additional credit. Category1: Modu
Category2: Parsite group (x) 7: $(x) = (x) $
Parsike group Category3:
pattern. CASE INSENISTIVE (x) ? , ? s , ? m , ? #
Category4: Ascii characte
Category5: Wildcard
Q7) Why doesn't the test harness for the following Regex API pattern match the character 1 in the matcher string provided? Pattern: 1?? Matcher: 1
The second "?" means reluctant quantifier. It will start matching from the
beginning matching only zero or once.
Q8) Why doesn't the Chomsky hierarchy represent all possible languages over the alphabet Σ ?

Q9) a) Which character is not represented by the wildcard. (period)? b) How can you override this?

a)

(period character itself)

b)

Q10) Which characters does the "word" class match?