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Course Progress Course > Readings > Reading 3: Regular Expressions & Grammars > Questions Previous B. Ø, (A) Questions □ Bookmark this page Writing a Grammar 1/1 point (graded) Consider the grammar from the reading: url ::= 'http://' hostname (':' port)? '/'
hostname ::= word '.' hostname | word '.' word port ::= [0-9]+ word ::= [a-z]+ Suppose we want this grammar to also match strings of the form: https://websis.mit.edu/ ftp://ftp.athena.mit.edu/ but not strings of the form: ptth://web.mit.edu/ mailto:bitdiddle@mit.edu So we change the grammar to: url ::= protocol '://' hostname (':' port)? '/' protocol ::= TODO hostname ::= word '.' hostname | word '.' word port ::= [0-9]+ word ::= [a-z]+ What could you put in place of TODO to match the desirable URLs but not the undesirable ones? word ✓ 'ftp' | 'http' | 'https' ('http' 's'?) | 'ftp' ('f' | 'ht') 'tp' 's'? Explanation Using word would allow the protocol to match all possible words, including ptth, which was one of the undesirable URLs.The other choices would safely match https and ftp but not match ptth or mailto.



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1 Answers are displayed within the problem

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