

4 Lecture - CS402

Important Mcqs

1. Which of the following regular expressions is equivalent to "a|b|c"?

- A) "abc"
- B) "[a-c]"
- C) "a+b+c+"
- D) "(a|b|c)"

Answer: D) "(a|b|c)"

Which of the following regular expressions is equivalent to "ab(a|b)"?

- A) "ab(a+b)"
- B) "a(ba|bb)"
- C) "(a|b)ab"
- D) "a(ba|bb)"

Answer: A) "ab(a+b)*"

Which of the following regular expressions is equivalent to "ab"?

- A) "(a+b)"
- B) "(ab)"
- C) "(a|b)"
- D) "(a|b*)"

Answer: C) "(a|b)*"

Which of the following regular expressions is equivalent to "a(b|c)"?

- A) "a|b|c"
- B) "a(bc)"
- C) "a+(b|c)"
- D) "(a+b+c)"

Answer: B) "a(bc)*"

Which of the following regular expressions is equivalent to "(ab)c"?

- A) "abc"
- B) "(a|b)c"
- C) "ab+c"
- D) "a(b+c)*c"

Answer: A) "abc*"

Which of the following regular expressions is equivalent to "a(b|c)d|aef"?

- A) "a(b|c|ef)d"
- B) "a(b|c)(d|ef)"
- C) "(ab|ac)d|aef"
- D) "(ab|ac)(d|ef)"

Answer: C) "(ab|ac)d|aef"

Which of the following regular expressions is equivalent to "a+b+c+"?

- A) "a|b|c"

- B) "(a+b+c)"
- C) "(a+b)(b+c)(c+a)"
- D) "(abc)+"

Answer: B) "(a+b+c)*"

Which of the following regular expressions is equivalent to "(ab|cd)+e"?

- A) "(a+b+c+d)e"
- B) "(a+b)(c+d)*e"
- C) "a(b+e)|(c+d)e"
- D) "(ab+cd)e+"

Answer: C) "a(b+e)|(c+d)e"

Which of the following regular expressions is equivalent to "a(b+c)d"?

- A) "a(b|c)+d"
- B) "a(b+c)d+"
- C) "(ab|ac)d"
- D) "a(b+d)(c+d)"

Answer: A) "a(b|c)+d"

Which of the following regular expressions is equivalent to "a(b+c)|d(e+f)"?

- A) "(ab+ac)|(de+df)"
- B) "a(b+c)d|d(e+f)"
- C) "ab+def*"
- D) "(a+b)(c+d)(e+f)*"

Answer: B) "a(b+c)d|d(e+f)"