How many times does the 'for' loop shown below execute?

## Peer Instruction 4 <br> Control Loops

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How many times does the 'for' loop shown below execute?

What does the following code print for the final value of the loop variable?
char $\mathrm{C}_{\text {; }}$
A. $c$ is $R$
for ( $\mathrm{c}={ }^{\prime} \mathrm{A}^{\prime} ; \mathrm{c}$ < 'S'; $\mathrm{c}++$ )
B. $c$ is $S$
System.out.println("c is " + c);
C. c is T
D. Will not compile!

|  | D. Will not compile! |
| :--- | :--- | :--- | :--- |
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What does the following code print for the final value of the loop variable?
char $\mathrm{C}_{\text {; }}$
A. $c$ is $R$
for ( $\mathrm{c}={ }^{\prime} \mathrm{A}^{\prime} ; \mathrm{c}$ ' ' $^{\prime}$ '; $\mathrm{C++}$ )
B. c is S
C. $c$ is T
D. Will not compile!
System.out.println("cis " + c)

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On to the lecture


How many pairs of numbers does the complex loop shown below print?


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How many lines does the nested loop shown below print?


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How many lines does the nested loop shown below print?

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## Which of the following correctly prints the entire contents of the string?

## String $s=$ "Programming is fun!";

A. for (int $\mathrm{i}=1 ;$ i< s.length() $\mathrm{i}++$ ) \{System.out.print(s.charAt(i)); \}
B. for (int $\mathrm{i}=1 ; \mathrm{i}=\mathbf{s}$.length(); +i ) \{System.out.print(s.charAt(i)); $\}$
C. for (int $\mathrm{i}=\mathrm{o} ; \mathrm{i}<=$ s.length(); $\mathrm{i}++$ ) $\{$ System.out.print(s.charAt(i)) ;
D. for (int $\mathrm{i}=\mathrm{o} ; \mathrm{i}<\mathrm{s}$.length(); ++i ) \{System.out.print(s.charAt(i)); \}
E. None of the above

What is the last thing printed by the 'for' loop shown below?
for (String $s=$ "Hello"; s.length ()$<=10 ; s+=$ "!") $\{$
System.out.println(s);
\}
A. Hello
B. Hello!
C. Hello!!!!
D. !!!!!
E. None of the above

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What is the last thing printed by the 'for' loop shown below?
for (String s = "Hello"; s.length ()$<=10 ; s+=$ "!") \{
System.out.println(s);
\}

B. Hello!
C. Hello!!!!!
D. !!!!!
E. None of the above
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