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|  | 1. What is the output of the following code? | | |
| int x = 2, p = 5, y = -8;  switch(x){  case 2:  p++;  case 3:  case 4:  y+=(p--);  break;  case 5:  y+=(p++);  }  System.out.println(y); | String s = “Red”;  int q = 0;  switch(s){  case “Red”:  q++;  case “Green”:  q++;  case “Blue”:  q++;  case “Yellow”:  q++;  default:  q++;  }  System.out.println(--q); | |
|  | **-2 but, I will also accept -3** | **4** | |
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| 1. The Magic 8 Ball is a plastic sphere resembling an 8-ball. Inside is a floating die with 20 faces. Each face has an affirmative, negative, or non-committal statement printed in raised letters. These messages are read through a window on the ball's bottom in response to a “yes” or “no” question. Finish the Magic8Ball class which simulates a Magic 8 Ball. Your simulator needs to only produce messages for the first 2 cases. | |
| public class Magic8Ball{  public static void main(String args[]){  Scanner s = new Scanner(System.in);  System.out.println(“Ask me a ‘yes’ or ‘no’ question”);  String q = s.nextLine();  **int die = (int)(Math.random()\*20);**  **String msg = "";**  **switch(die){**  **case 0:**  **msg = "maybe";**  **break;**  **case 1:**  **msg = "unlikely";**  **break;**    **}**  **System.out.println(msg);**  }  } | |
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| 1. The program below accepts a phrase from the user and checks if the phrase reads the same if it is reversed. If the reversal of the string is identical to the original the program indicates “Palidrome!”, otherwise it indicates “Not!”. Finish the palidrome checker class below | |
| public class Palindrome {  public static void main(String args[]){  Scanner s = new Scanner(System.in);  System.out.println(“Type a phrase: ”);  String word = s.next();  **String wordR = "";**    **for(int w = word.length(); w > 0; w--){**    **wordR += word.substring(w-1, w);**  **}System.out.println(wordR);**  **if(wordR.equals(word))**  **System.out.println("Palindrome");**  **else**  **System.out.println("Not!");**  }  } | |
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| 1. Create the following patterns with for loops: | | |
|  | **for(int row = 0; row < 10; row++){**  **for(int col = 0; col < 10; col++){**  **System.out.print("\*");**  **}**  **System.out.println();**  **}** | |
|  | **for(int row = 0; row < 10; row++){**  **for(int col = 10; col > row; col--){**  **System.out.print("\*");**  **}**  **System.out.println();**  **}** | |
|  | **for(int row = 0; row < 10; row++){**  **for(int col = 0; col < row; col++){**  **System.out.print("\*");**  **}**  **System.out.println();**  **}** | |
|  | | /9 |