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| **Skill 10.1 Exercise 1** |
| The Magic 8 Ball is a plastic sphere resembling an [8-ball](https://en.wikipedia.org/wiki/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 3 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();  }  } |

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| **Skill 9.2 Exercise 1** |
| The Schedule class below, displays a different message depending on the day of the week. For example, if the day is “Thursday”, the message could be “CS Exam”; If the day is “Friday”, the message could be “Football game”. Write the Schedule class. |
| Public class Schedule{  public static void main(String args[]){  Scanner s = new Scanner(System.in);  System.out.println(“What day is it?”);  String day = s.next();  }  } |

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| **Skill 9.3 Exercise 1** | |
| What is the output of the following code? | |
| int x = 3, p = 5, y = -8;  switch(x){  case 2:  p++;  case 3:  case 4:  y+=(p--);  break;  case 5:  y+=(p++);  }  System.out.println(y) |  |

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| **Skill 9.3 Exercise 2** | |
| What is the output of the following code? | |
| String s = “Green”;  int q = 0;  switch(s){  case “Red”:  q++;  case “Green”:  q++;  case “Blue”:  q++;  case “Yellow”:  q++;  default:  q++;  }  System.out.println(--q) |  |

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| **Skill 9.3 Exercise 3** | |
| Re-write the following as a switch statement. | |
| if(speed == 75){  System.out.println(“Slow down”);  }else if((speed == 69) || (speed == 70)){  System.out.println(“Getting close”);  }else if(speed == 65){  System.out.println(“Cruising”);  }else{  System.out.println(“Too slow”);  } |  |