```java
/**
 * header
 */
 import static java.lang.System.*;
import java.util.Scanner;

public class MorseCode
{
    // 1 char instance variable
    private char foo;
    private String fubar;
    // default constructor
    public MorseCode()
    {
        foo = 'A';
        fubar = "";
    }
    // loaded constructor
    public MorseCode(char bar)
    {
        setChar(bar);
    }
    // method setChar
    public void setChar(char bar)
    {
        foo = bar;
    }
    // method getMorseCode
    public void getMorseCode()
    {
        switch(foo)//there are betterways to do this, but to stay within
    the scope of this class, this is the how you should do it
        {
                case 'A'://Lets get started with this long-ass switch sta
    tement
                    fubar = ".-";
                    break;
                case 'B':
                    fubar = "-...";
                    break;
                case 'C':
                    fubar = "-.-.";
                    break;
                case 'D':
                    fubar = "-..";
                    break;
                case 'E':
                    fubar = ".";
                    break;
```

```
48          case 'F':
49              fubar = "..-.";
50              break;
51          case 'G':
52              fubar = "-_.";
53              break;
54          case 'H':
55              fubar = "....";
56              break;
57          case 'I':
58              fubar = "..";
59              break;
60          case 'J':
61              fubar = ".---";
62              break;
63          case 'K':
64              fubar = "-.-";
65              break;
66          case 'L':
67              fubar = ".-..";
68              break;
69          case 'M':
70              fubar = "--";
71              break;
72          case 'N':
73              fubar = "-.";
74              break;
75          case 'O':
76              fubar = "---";
77              break;
78          case 'P':
79              fubar = ".--.";
80              break;
81          case 'Q':
82              fubar = "--.-";
83              break;
84          case 'R':
85              fubar = ".-.";
86              break;
87          case 'S':
88              fubar = "...";
89              break;
90          case 'T':
91              fubar = "-";
92              break;
93          case 'U':
94              fubar = "..-";
95              break;
96          case 'V':
```

```
 97                         fubar = "...-";
 98                     break;
 99                 case 'W':
100                     fubar = ".--";
101                     break;
102                 case 'X':
103                     fubar = "-..-";
104                     break;
105                 case 'Y':
106                     fubar = "-.--";
107                     break;
108                 case 'Z':
109                     fubar = "--..";
110                     break;
111                 case '1':
112                     fubar = ".----";
113                     break;
114                 case '2':
115                     fubar = "..---";
116                     break;
117                 case '3':
118                     fubar = "...--";
119                     break;
120                 case '4':
121                     fubar = "....-";
122                     break;
123                 case '5':
124                     fubar = ".....";
125                     break;
126                 case '6':
127                     fubar = "-....";
128                     break;
129                 case '7':
130                     fubar = "--...";
131                     break;
132                 case '8':
133                     fubar = "---..";
134                     break;
135                 case '9':
136                     fubar = "----.";
137                     break;
138                 case '0':
139                     fubar = "-----";
140                     break;
141                 default:
142                     System.out.println("I do not accept lowercase letters
    ");
143                     break;
144         }
```

```
145        }
146        // method toString
147        public String toString()
148        {
149            getMorseCode();
150            return (foo + " is " + fubar +" in morse code");
151        }
152    }
153
```