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Skill 9.1 Exercise 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 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();

    }

}
```

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)
```

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)
```

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");

}
```

AP Computer Science A
Ticket Out the Door
Set 9: The *switch* Statement

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