3.7.2: Detecting multiple features with branches.

Given integer health, write multiple if statements:

* If health is greater than or equal to 27, output "I can run a mile.".
* If health is greater than or equal to 33, output "I can run a marathon.".
* If health is less than or equal to 7, output "I am tired.".

End with a newline.

Ex: If the input is 35, then the output is:

I can run a mile.

I can run a marathon.

import java.util.Scanner;

public class RemainingEnergy {

 public static void main (String[] args) {

 Scanner scnr = new Scanner(System.in);

 int health;

 health = scnr.nextInt();

 if (health >= 27) {

 System.out.println("I can run a mile.");

}

if (health >= 33) {

 System.out.println("I can run a marathon.");

}

if (health <= 7) {

 System.out.println("I am tired.");

}

 }

}

Given integers numPoints1 and numPoints2, output "numPoints1 is greater than or equal to 45." if numPoints1 is greater than or equal to 45. End with a newline.

Assign numPoints2 with 10 if numPoints2 is less than 35. Otherwise, output "numPoints2 is greater than or equal to 35.". End with a newline.

Ex: If the input is 50 60, then the output is:

numPoints1 is greater than or equal to 45.

numPoints2 is greater than or equal to 35.

numPoints2 is 60.

import java.util.Scanner;

public class NumberComparisons {

 public static void main (String[] args) {

 Scanner scnr = new Scanner(System.in);

 int numPoints1;

 int numPoints2;

 numPoints1 = scnr.nextInt();

 numPoints2 = scnr.nextInt();

 if (numPoints1 >= 45) {

 System.out.println("numPoints1 is greater than or equal to 45.");

}

if (numPoints2 < 35) {

 numPoints2 = 10;

}

else {

 System.out.println("numPoints2 is greater than or equal to 35.");

}

 System.out.println("numPoints2 is " + numPoints2 + ".");

 }

}

Integers numSoups and cash are read from input. A soup costs 7 dollars.

* If numSoups is less than 4, output "Not enough soups.".
* If numSoups is greater than or equal to 4, then multiply numSoups by 7.
	+ If the product of numSoups and 7 is less than or equal to cash, output "Soups successfully purchased.".
	+ Otherwise, output "Need more money to purchase all.".
* If numSoups is greater than 26, output "Restocking soon.".

End with a newline.

Ex: If the input is 15 131, then the output is:

Soups successfully purchased.

import java.util.Scanner;

public class SoupPurchases {

 public static void main (String[] args) {

 Scanner scnr = new Scanner(System.in);

 int numSoups;

 int cash;

 numSoups = scnr.nextInt();

 cash = scnr.nextInt();

 if (numSoups < 4) {

 System.out.println("Not enough soups.");

}

else {

 int totalCost = numSoups \* 7;

 if (totalCost <= cash) {

 System.out.println("Soups successfully purchased.");

 }

 else {

 System.out.println("Need more money to purchase all.");

 }

}

if (numSoups > 26) {

 System.out.println("Restocking soon.");

}

 }

}