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.");

}

}

}