**Day 59 coding Statement : Body Mass Index**

You are given the height H (in metres) and mass M (in kilograms) of Anusree. The Body Mass Index (BMI) of a person is computed as M/H^2.

Report the category into which Anusree falls, based on his BMI:

Category 1: Underweight if BMI ≤18

Category 2: Normal weight if BMI ∈{19, 20,…, 24}

Category 3: Overweight if BMI ∈{25, 26,…, 29}

Category 4: Obesity if BMI ≥30

**Input:**

The first line of input will contain an integer, T, which denotes the number of testcases. Then the testcases follow.

Each testcase contains a single line of input, with two space separated integers, M,H, which denote the mass and height of Anusree respectively.

**Output:**

For each testcase, output in a single line, 1,2,3 or 4, based on the category in which Anusree falls.

**Sample Input:**

3

72 2

80 2

120 2

**Sample Output:**

1

2

4

import java.util.Scanner;

public class RatanPrajapati\_day59 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        int T = sc.nextInt();

        while (T-- > 0) {

            int M = sc.nextInt();

            int H = sc.nextInt();

            int BMI = M / (int) (Math.pow(H, 2));

            if (BMI <= 18) {

                System.out.println("1");

            } else if (BMI >= 19 && BMI <= 24) {

                System.out.println("2");

            } else if (BMI >= 25 && BMI <= 29) {

                System.out.println("3");

            } else {

                System.out.println("4");

            }

        }

    }

}