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

```java
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");
            }
        }
    }
}
```