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 Program {
   public static void main(String[] args) {
          Scanner sc=new Scanner(System.in);
          int n=sc.nextInt();
          int[][] arr=new int[n][n];
          for(int i=0;i<n;i++) {
                arr[i][0]=sc.nextInt();
                arr[i][1]=sc.nextInt();
          }
          for(int i=0;i<n;i++) {
                 int bmi=(arr[i][0]/(arr[i][1]*arr[i][1]));
                 if(bmi<=18) {
                        System.out.println("1");
                 }
                 else if(bmi>18 && bmi<25) {
                        System.out.println("2");
                 }
                 else if(bmi>24 && bmi<30) {
                        System.out.println("3");
                 }
                 else if(bmi>=30){
                        System.out.println("4");
                 }
          }
   }
}
```