/*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*/

```
import java.util.*;
public class Main
{
	public static void main(String[] args) {
		Scanner sc=new Scanner(System.in);
		int n=sc.nextInt();

		int a[]=new int[n];
		int pos=0;

		while(n!=0){
		   for(int i=0;i<n;i++){
		      int h=sc.nextInt();
		      int w=sc.nextInt();
		      int res=h/(w*w);

		      if(res<=18){
		         a[pos]=1;
		         pos++;
		         n--;
		      }
		      else if(res>=19 && res<=24){
		         a[pos]=2;
```

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                    pos++;
                    n--;

                }
                else if(res>=25 && res<=29){
                    a[pos]=3;
                    pos++;
                    n--;
                }
                else{
                    a[pos]=4;
                    pos++;
                    n--;
                }
              }
            }
            for(int i=0;i<pos;i++){
              System.out.println(a[i]);
            }
        }
}
```