```java
/*--- HW06.java ---*/
import java.util.*;

public class HW06 {
  // This program can be run in one of two ways, either as
  // java HW06    -or-   java HW06 <seedval>
  // The first ways is the usual, the seed for the random
  // number generator is the current time.  The second way
  // is good for testing, since the same seed should always
  // yield the same output.
  public static void main(String[] args) {
    //  initialize and read in Geysers
    long seed = System.currentTimeMillis();

    if (args.length > 0) {
      seed = Integer.parseInt(args[0]);
    }
    Random  r  = new Random(seed);
    Scanner in = new Scanner(System.in);
    int     N  = in.nextInt();
    Geyser[] G = new Geyser[N];

    for (int i = 0; i < N; i++) {
      G[i] =  Geyser.read(in);
    }

    // Simulate 20 days
    for (int d = 1; d <= 20; d++) {
      Geyser.simDay(d, G, r);
    }
  }
}

/*--- Geyser.java ---*/
import java.util.*;

public class Geyser {
  private String name;
  private double baseProbFactor;
  private int    daysSinceLastBlow;

  // reads (and returns) geyser in the following format
  // <name> <initBlowProb> <days>
  public static Geyser read(Scanner sc) {
    Geyser g = new Geyser();

    g.name             = sc.next();
    g.baseProbFactor   = 1.0 - sc.nextDouble();
    g.daysSinceLastBlow = sc.nextInt();
    return g;
  }

  // Simulate one day.  If g doesn't blow, return -1
  // if g blows, return number of days since last blow
  public static int simDay(Geyser g, Random r) {
    int tmp        = ++g.daysSinceLastBlow;
    double blowProb = 1 - Math.pow(g.baseProbFactor, tmp);

    if (r.nextDouble() <= blowProb) {
      g.daysSinceLastBlow = 0;
    } else {
      tmp = -1;
    }
    return tmp;
  }

  // Simulate day d for array G of geysers & output results
  public static void simDay(int d, Geyser[] G, Random r) {
    int k = 0;

    System.out.print("Day " + d + ":");

    for (int i = 0; i < G.length; i++) {
      if (simDay(G[i], r) != -1) {
        System.out.print((k++ > 0 ? ", " : " ") + G[i].name);
      }
    }
    System.out.println();
  }
}
```