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//April 8th, 2020
//Junior 5
//Enloe HS
//Contest #4
import java.io.File;

import java.util.Scanner;

public class Main {

    public static void main(String[] args) throws Exception {
        File file = new File("junior.txt");
        Scanner keyboard = new Scanner(file);
        int[] primes = { 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47 };
        int[] squares = { 9, 16, 25, 36, 49 };
        int[][] HoVe = { { 6, 8 }, { 11, 13 }, { 16, 18 }, { 21, 23 }, { 26, 28 }, {
34, 36 }, { 39, 41 }, { 44, 46 }, { 49, 51 } };
        for (int t = 1; t <= 5; t++) {
            int block1 = keyboard.nextInt();
            int block2 = keyboard.nextInt();
            int block3 = keyboard.nextInt();
            int start = keyboard.nextInt();
            int rolls = keyboard.nextInt();
            int[] moves = new int[rolls];
            for (int i = 0; i < moves.length; i++)
                moves[i] = keyboard.nextInt();
            int end = start;
            int i = 0;
            boolean finalCheck = false;
            while (finalCheck == false && i < moves.length) {
                start = end;
                end = moves[i] + end;
                boolean primeCheck = false;
                boolean squaresCheck = false;
                boolean check = true;
                for (int j = 0; j < primes.length; j++) {
                    if (end == primes[j]) {
                        primeCheck = true;
                        check = false;
                    }
                }
                for (int j = 0; j < squares.length; j++) {
                    if (end == squares[j]) {
                        squaresCheck = true;
                    }
                }
            }
        }
    }
}

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        check = false;
    }
}
if (end == block1 || end == block2 || end == block3 || end > 52) {
    primeCheck = false;
    squaresCheck = false;
    check = false;
    end = start;
}
if (primeCheck == true) {
    int counter = 0;
    while (counter < 6) {
        end++;
        if (end == block1 || end == block2 || end == block3) {
            end--;
            counter = 6;
        } else
            counter++;
    }
} else if (squaresCheck == true) {
    int counter = 0;
    while (counter < 6) {
        end--;
        if (end == block1 || end == block2 || end == block3) {
            end++;
            counter = 6;
        } else
            counter++;
    }
} else if (check == true) {
    boolean trollCheck = false;
    int x = 0;
    while (trollCheck == false && x < HoVe.length) {
        if (start <= HoVe[x][0] && end >= HoVe[x][1]) {
            trollCheck = true;
        }
        x++;
    }
    if (trollCheck == true) {
        boolean multiple = false;
        int j = start + 1;
        while (multiple == false && j <= end) {
            if (j % moves[i] == 0 && !(j == block1) && !(j == block2) && !(j ==
block3)) {
                end = j;
            }
        }
    }
}

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        multiple = true;
    }
    j++;
}
if (multiple == false)
    end = start;
}
}
if (end == 52) {
    System.out.println("GAME OVER");
    finalCheck = true;
}
i++;
}
if (finalCheck == false)
    System.out.println(end);
}
}
}
```