using System;

using System.Collections.Generic;

using System.Linq;

class Program

{

static void Main(string[] args)

{

List<IIdentifiable> all = new List<IIdentifiable>();

string command;

while((command = Console.ReadLine()) != "End")

{

var tokens = command.Split();

if(tokens.Length == 3)

{

all.Add(new Citizen(tokens[0], int.Parse(tokens[1]), tokens[2]));

}

else if(tokens.Length == 2)

{

all.Add(new Robot(tokens[0], tokens[1]));

}

}

var lastDigits = Console.ReadLine();

all.Where(c => c.Id.EndsWith(lastDigits))

.Select(c => c.Id)

.ToList()

.ForEach(Console.WriteLine);

}

}