# 9. Pretty Hands

Program Name: PrettyHands.java Input File: prettyhands.dat

Playing cards contain a rank and a suit. The possible ranks are Two, Three, Four, Five, Six, Seven, Eight, Nine, Ten, Jack, Queen, King, and Ace. The possible suits are Clubs, Diamonds, Hearts, and Spades. A hand consists of one or more cards. A hand is defined to be *pretty* if:

- all the cards in it are Jacks, Queens, Kings, or Aces regardless of suit, or
- all of the cards in it have a rank between Two and Ten inclusive and are a red suit. The red suits are Hearts and Diamonds.

Write a program that, given various hands, prints if they are pretty or not pretty.

### Input

- The first line of input will contain a single integer n that indicates the number of data sets to process.
- Each data set will consist of two parts.
- The first line of a data set will contain a single integer m that indicates the number of cards in the data set.
- The next m lines will contain the cards in the data set, one card per line.
  - o Each card is listed as <Rank> of <Suit> where <Rank> is replaced with one of the possible card ranks and <Suit> is replaced with one of the possible card suits.
  - o A given card may appear multiple times in a single data set.

#### Output

For each data set print PRETTY if the cards in the data set constitute a pretty hand per the problem statement or NOT PRETTY if they do not.

#### **Example Input File**

```
5
1
Ace of Spades
3
Ace of Spades
King of Hearts
King of Hearts
4
Two of Diamonds
Two of Diamonds
Ten of Diamonds
Seven of Hearts
3
Ace of Diamonds
Ten of Diamonds
```

## **Example Output to Screen**

PRETTY
PRETTY
PRETTY
NOT PRETTY
NOT PRETTY