**Woods 2011**

**11. Planning Ahead**

# Program Name: PlanningAhead.java Input File: planningahead.dat

As an angry bird, Mr. Mad flies all over the place. Whenever Mr. Mad flies, he likes to know when he will get there. Depending on how long his flight takes, he takes a third of the total time he flies to rest. If he begins his journey on September 12, 1993, determine what day he lands after he rested.

**Input**

The first integer is the number of times he flies and N<=25. The following integers are the length of his flights in days before he rests.

**Output**

Print out the day, month and year of when he lands after he is rested.

**Example Input File**

4

3

45

67

200

**Example Output to Screen**

September 16, 1993

November 11, 1993

December 10, 1993

June 05, 1994

**Woods 2012**

**10. Days Until Christmas**

**Program Name: DaysUntilChristmas.java Input File: DaysUntilChristmas.dat**

Thomas wants to find out how many days there are until Christmas. Help him write a program that can tell him how many days until Christmas on a certain date.

**Input**

The first value in the data file is an integer that represents the number of data sets to follow. Each data set will contain a month, date and year each separated by a space.

**Output**

Your program should produce n lines of output, n representing the number of data sets. Each line should print out the number of days until Christmas.

**Assumptions:** All given dates will be in the same year. If the given date occurs after Christmas, then you must find out how many days there are until next year’s Christmas and if the day occurs on Christmas then the number of days until Christmas is 0. Christmas is on December 25th.

**Sample Input**

4

10 8 2002

1 5 2002

6 24 2002

12 26 2002

**Sample Output**

78 DAYS UNTIL CHRISTMAS

354 DAYS UNTIL CHRISTMAS

184 DAYS UNTIL CHRISTMAS

364 DAYS UNTIL CHRISTMAS

**UIL Region 2016**

**12. Zoe**

**Program Name: Zoe.java**

**Input File: zoe.dat**

Zoe has been practicing a long time for the upcoming State UIL programming contest, which she knows is on May 25, 2016 this year. She wanted to keep track of the dates that were so many days out from that important event, and needs you to write a program that will help her out with that, plus, she needs help with calendar type programs anyway.

She wants the program to calculate and output the date that is a certain number of days before the state contest date.

For example, 10 days before that day is May 15, 2016, which she wants to be in the format mm/dd/yy, which would be 05/15/16.

**Input -** Several integers N (0<=N<=500), each on a separate line.

**Output -** The date in **mm/dd/yy** format that represents the given number of days N before May 25, 2016.

**Sample data:**

10

1

86

**Sample Output:**

05/15/16

05/24/16

02/29/16

**UIL Invitational A 2016**

Bubba Gump's Spice Shop is old school. Bubba has been keeping track of price changes on a particular product all year – his secret spice packet called BubbaSpice for boiled shrimp - and needs to see a report of all of these changes, in chronological order. He's been keeping a record of all changes on note cards, and is not real sure of the accuracy, but is pretty sure if all could be compiled into one report, he would have a true picture of the price changes.

For example, the first price of $5.00 was set for period from January 1, 2016 to June 30 of the same year. It shows on the card as "**1/1 6/30 5.00**".

The next card shows "**2/1 3/15 5.21**", which means that during that time period, he raised the price

to $5.21, but it reverted back down to $5.00 after that, from March 16 to June 30.

Needless to say, he is very confused and needs your help.

Given the data as shown below, with each data set showing a starting date, ending date, and price, generate a listing after each card is entered into the mix, of the sequence of price ranges from the first date to the last date of record.

The sample output below shows the correct sequence given the sample input data.

**Input:** Several data sets, each on one line, consisting of two dates in "**m/d**" format representing the starting and ending date of a price, followed by the price for that date range. The starting date will always be January 1, 2016, and the ending date will be on or before December 31, 2016.

**Output:** A complete chronological report after each data set of the known starting date of all price changes seen up to this data set. The word END should be displayed after the final date in the date range, with a single blank line following each report, formatted as shown.

**Sample Input:**

1/1 6/30 5.00

2/1 3/15 5.21

3/16 6/30 5.75

2/22 3/16 5.16

**Sample Output:**

01/01/16 $5.00

06/30/16 END

01/01/16 $5.00

02/01/16 $5.21

03/16/16 $5.00

06/30/16 END

01/01/16 $5.00

02/01/16 $5.21

03/16/16 $5.75

06/30/16 END

01/01/16 $5.00

02/01/16 $5.21

02/22/16 $5.16

03/17/16 $5.75

06/30/16 END