(Duration: 25 minutes. One page of notes is allowed. No exchange of materials)

```
enum Month { Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec }
class Date {
   int day; Month mon; int year;
   public Date(int d, Month m, int y

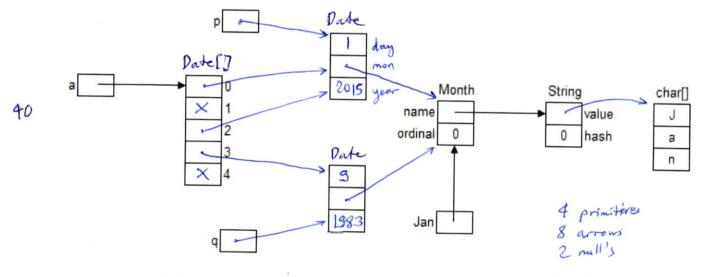
   duy= d; mon=m; year=y;
  }
  public String toString() { // "Jan 1, 2105" for p
    return ... mon + " " + day + ", " + year;
}
```

1. Complete the blanks shown above so that the following code is correct.

```
Date p = new Date(1, Month.Jan, 2015);
Date q = new Date(9, Month.Jan, 1983);
Date[] a = new Date[5];
a[0] = p; a[2] = p; a[3] = q;
```

2. Complete the object diagram for the three objects defined above:

Write down class names of each object, field names, field values, and missing arrows.



3. Show how to make List b using a, and Set h using b

4. Show how to get the first element of a and b. (write two lines of code)

10

5. Show how to set the last element of a and b to the object reference q.

10 
$$a[4] = q$$
 b, set  $(4, q)$  a. length  $4$  b, size() may be used

6. Predict the values of h.size() and h.contains(p)

$$h = \{null, p, q\}$$