

Magic 8 Ball



This assignment asks you to write a program that replicates the classic Magic 8 Ball toy from the 1960's.

Your program (like the original 8 Ball) will not really pay any attention to the user's question—it will simply take the question and discard it.

Then it always gives one of several “canned” answers. The original Magic 8 Ball had the answers printed on the sides of two eight-sided dice.



1. Start a new program.

```
public class Magic8Ball
{
    public static void main (String args[])
    {
        new Magic8Ball ();
    }

    public Magic8Ball ()
    {
    }
}
```



2. Save it to a place that you have IO.

```
public class Magic8Ball
{
    public static void main (String args[])
    {
        new Magic8Ball ();
    }

    public Magic8Ball ()
    {
    }
}
```



3. Add the title. Run it.

```
IO.printSlow ("Introducing...");  
IO.printSlow ("          T H E      M A G I C      8      B A L L ", 15);  
System.out.println ();
```



What does
IO.printSlow
do?

How does the
15 at the end
change it?

4. Add an instruction. Ask the user for a question.

```
System.out.println ("Ask a yes or no question and the Magic 8 Ball will answer.");  
System.out.println ();  
String ques = IO.inputString ("Your question? ");  
System.out.println ();
```



The `System.out.println ();` spaces out the output nicely on the screen.

5. Start off the answer.

Get a random number
between 1 and 16

```
IO.printSlow ("The Magic 8 Ball says:", 5);  
int num = (int) ((Math.random () * 16) + 1);
```

6. Put in the first two answers.

```
if (num == 1)
    System.out.println ("\tOutlook not so good");
else if (num == 2)
    System.out.println ("\tDon't count on it");
```



Remember
that \t is a
tab.

7. Add in the next else if

```
else if (num == 3)
    System.out.println ("\tMy sources say no");
```



8. Add in the
remaining else ifs

You will need to
code these
yourself.

Outlook not so good
Don't count on it
My sources say no
Without a doubt
Reply hazy, try again
It is certain
My reply is no
As I see it yes
Most likely
You may rely on it
Cannot predict now
Outlook good
Better not tell you now
Very doubtful
Yes definitely
Concentrate and ask again

9. Run your code.

When it works,
Ms. Gorski will
check it off.

