



A2: 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.

Sample Input and Output

```
***Ask the Magic 8 Ball ***
```

Enter a yes or no question: **Will I pass this course?**

The Magic 8 Ball says:
Cannot predict now.

1. Paste in the starter code:

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

    public Magic8Ball ()
    {

    }
}
```



2. First print the title: `***Ask the Magic 8 Ball ***`

3. Then, ask the question: Enter a yes or no question:

4. Then, print the line: The Magic 8 Ball says:

5. Paste in this line to get a number between 1 and 16:

```
int num = (int) (Math.random () * 16) + 1;
```

6. Then you will be able to type 16 if statements like:

```
if (num == 1)
    System.out.println ("outlook not so good");
```

The answers to go in your if statements are:

- | | |
|--------------------------|-------------------------------|
| 1. outlook not so good | 9. most likely |
| 2. don't count on it | 10. you may rely on it |
| 3. my sources say no | 11. cannot predict now |
| 4. without a doubt | 12. outlook good |
| 5. reply hazy, try again | 13. better not tell you now |
| 6. it is certain | 14. very doubtful |
| 7. my reply is no | 15. yes definitely |
| 8. as I see it yes | 16. concentrate and ask again |