



Roe Sham Bo

Nothing like a little Rock Paper Scissors!

Exercises

Over the centuries, Roe Sham Bo has gone on in many fashions. Today it has taken on the form of Rock Paper Scissors. You will be continuing on with this time honored tradition by entering into combat against your sinister computer. May the best man...woman...computer win!

Here are the steps of the game:

(your formatting may vary, but be clear and descriptive)

- 1) Start off by asking the user to choose rock, paper, or scissors by entering a 1, 2 or 3. Be sure to be clear with your prompting.

```
Rock = 1, Paper = 2, Scissors = 3
```

```
Choose your weapon!
```

- 2) Then have the computer randomly choose. Tell the user the computers choice.

```
Computer shows Rock
```

- 3) Then, tell who won and with what (even in a tie).

```
Rock SMASHES Scissors! You WIN!!
```

or

```
Paper SMOTHERS Rock! The computer bested you...
```

What will happen if the user picks 7? You're the programmer, it's your game...

Help with Random Number Generator

`Math.random()` returns a double with a range of $0 \leq x < 1$. But we can fix it to give an integer from 1 to 3.

```
(int) (Math.random() * 3 + 1)
```

This expands it to 3 numbers, shifts it up to start at 1 and finally casts it to an integer. So the output is the set [1, 2, 3].

Continue...



Exercises

Advanced Idea

Feel free to devise your own ways to improve the game.

Here's 1 idea.

Google "Java while loop" and adjust your game so that it plays over and over until the user is done. Also, keep track of the number of win-loss stats. (8-2-1 means you've won 8, lost 2 and tied 1). Note: we will cover how to do this next unit.

Continue...



Exercises

Additional Stuff



Exercises



Continue...