## Mathematical Ludo Example 2

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```
\# n = as.numeric(readline(prompt = "Enter the number of times you want to play = "))
n <- as.integer(params$number_of_times_you_want_to_play)</pre>
i = 1
numbers <- c()</pre>
while(i <= n){</pre>
  numbers[i] = floor(runif(n = 1, min = 1, max = 5))
  i = i + 1
}
x < -c(0)
y < -c(0)
i = 2
while (i \le n+1)
  if(numbers[i-1] == 1)
    x[i] < 0
    y[i] \leftarrow (0.16 * y[i-1])
  else if(numbers[i-1] == 2)
    x[i] \leftarrow ((0.85 * x[i-1]) - (0.04 * y[i-1]))
    y[i] \leftarrow (((-0.04) * x[i-1]) + (0.85 * y[i-1]) + 1.6)
  else if(numbers[i-1] == 3)
    x[i] \leftarrow ((0.2 * x[i-1]) - (0.26 * y[i-1]))
    y[i] \leftarrow ((0.23 * x[i-1]) + (0.22 * y[i-1]) + 1.6)
  else if(numbers[i-1] == 4)
    x[i] \leftarrow ((-0.15) * x[i-1]) + (0.28 * y[i-1]))
    y[i] \leftarrow ((0.26 * x[i-1]) + (0.24 * y[i-1]) + 0.44)
  i = i + 1
}
```

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