In the name of God, the merciful

The first is the Open Gambling Example:

#n: Represents the amount that if the person's capital reaches that amount, the game is all

#K: Shows the amount of person's initial capital

#p: Indicates the chance to win or loser open gambling at any round of the game

#mean(simlist):Represents the possibility of a bankruptcy of gambling open

For example, we select the above defined parameters as below:

$$k = 6$$
 , $n = 10$, $p = \frac{1}{2}$

And finally we enter the necessary code in Pro R software as follows:

According to the results of example 10.1 page 15 of the book introduction to random Processes with R from Robert Pi. Dogo see that finally the possibility of losing the open gambling is equal $\frac{n-k}{n}$

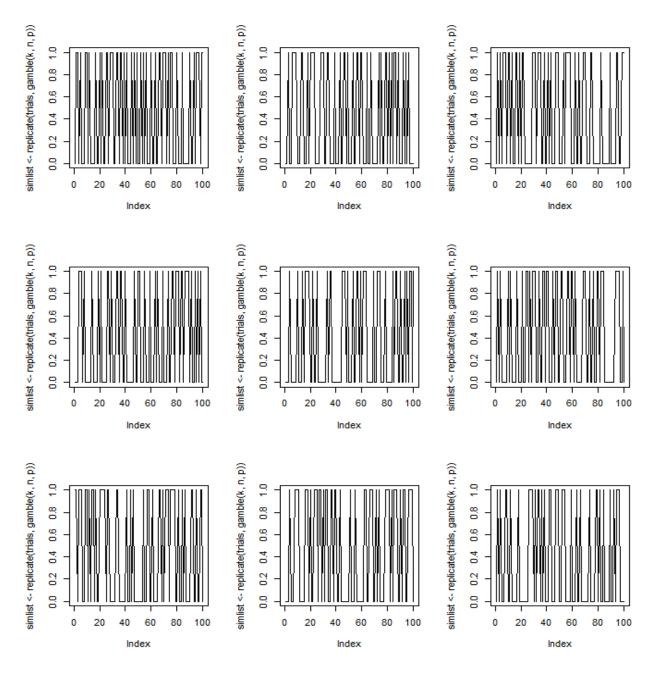
In this way, we will also be in the above example

$$\frac{10-6}{10} = \frac{4}{10} \approx 4.35$$

Now, having a high-profile gambling example, we want to draw a chart of 9 different modes on one page, i.e. each chart displays a specific mode that will help you get the following code in the application:

- > par(mfrow=c(3,3))
- > replicate(9,plot(simlist<-replicate(trials,gamble(k,n,p)),type = "l"))</pre>

And what we see:



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End.