

Lab5 - Activity

10/10/2018

1. Matrix and vector multiplication: write a function that will multiply a matrix and a vector (without built-in matrix multiplication function). $A \%*\% B$ is not allowed.

```
A = matrix(1:9, nrow = 3)
b = c(1, 2, 3)
mat_vec_mult(A, b)
```

```
##      [,1]
## [1,]   30
## [2,]   36
## [3,]   42
```

We can check our result:

```
A%*%b
```

```
##      [,1]
## [1,]   30
## [2,]   36
## [3,]   42
```

2. Suppose you are betting that you get at least one six in 4 throws of a die. Write a function that simulates one round of the game and prints out whether you win or lose.