**INPUT:**

#Set the number of teams and matches

num\_teams <- 50

num\_matches\_per\_team <- 20

#Generate random success rates for each team

success\_rates <- runif(num\_teams,min=0.2,max=0.8)

#Simulate outcomes for each team using a compound binomial distribution

team\_outcomes <- sapply(success\_rates,

function(p)rbinom(num\_matches\_per\_team,size=50,prob=p))

#Print the simulated outcomes for the first team

print(team\_outcomes[1])

**OUTPUT:**

> print(team\_outcomes[1])

[1] 25