```
#ERIC AGYEMANG
#MAT 455 HOME WORK5
#QUESTION # 3.8 B)
P \leftarrow \text{matrix}\left(c\left(\frac{1}{4},\frac{1}{2},0,0,\frac{3}{4},\frac{1}{2},0,0,\frac{0}{0},0,\frac{1}{5},\frac{4}{5},\frac{0}{0},0,\frac{4}{5},\frac{1}{5}\right),\text{ ncol} = 4,\text{ nrow} = 4\right)
P_0 <- diag(4)
for (i in 1:1000000) {
 P_0 <- P_0%*%P
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#QUESTION # 3.14 B)
P = 1 < -matrix(c(0.77, 0.24, 0.23, 0.76), ncol = 2, nrow = 2)
P_0 <- diag(2)
P \leftarrow matrix(c(0,0,0,0), ncol = 2, nrow = 2)
for (i in 1:365) {
 P_0 <-P_0%*%P_1
 P <- P + P 0
#QUESTION # 3.17
P = 1 \leftarrow matrix(c(1/2, 0, 1/2, 1), ncol = 2, nrow = 2)
P_0 <- diag(2)
for (i in 1:1000000) {
P_0 <- P_0%*%P_1
P_0 <- diag(2)
P \leftarrow matrix(c(0,0,0,0), ncol = 2, nrow = 2)
for (i in 0:1000000) {
 P 0 <-P 0%*%P 1
 P <- P + P 0
```