```r
my_matrix =matrix(data=0:0,nrow = 5,ncol=5,byrow=TRUE)
my_matrix

ctr=0;
for (i in 1:nrow(my_matrix)){
  for (j in 1:ncol(my_matrix)){
    if (i==j){break
    }
    else{
      my_matrix[i,j]= i*j
      ctr =ctr+1
    }
  }
}
print(my_matrix)
print(ctr)
```

1:1 (Top Level) R Script

Global Environment

Data	
my_matrix	int [1:5, 1:5] 0 2 3 4 5 0 0 6 8 10 ...
Values	
ctr	10
i	5L
j	5L

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Console Terminal

```
[5,]    5   10   15   20    0
> print(ctr)
[1] 10
> my_matrix =matrix(data=0:0,nrow = 5,ncol=5,byrow=TRUE)
> my_matrix
     [,1] [,2] [,3] [,4] [,5]
[1,]    0    0    0    0    0
[2,]    0    0    0    0    0
[3,]    0    0    0    0    0
[4,]    0    0    0    0    0
[5,]    0    0    0    0    0
>
> ctr=0;
> for (i in 1:nrow(my_matrix)){
+   for (j in 1:ncol(my_matrix)){
+     if (i==j){break
+     }
+     else{
+       my_matrix[i,j]= i*j
+       ctr =ctr+1
+     }
+   }
+ }
> print(my_matrix)
     [,1] [,2] [,3] [,4] [,5]
[1,]    0    0    0    0    0
[2,]    2    0    0    0    0
[3,]    3    6    0    0    0
[4,]    4    8   12    0    0
[5,]    5   10   15   20    0
> print(ctr)
[1] 10
>
```