

```
[1] "1 a"  
[1] "1 b"  
[1] "1 c"  
[1] "1 d"  
[1] "1 e"  
[1] "2 a"  
[1] "2 b"  
[1] "2 c"  
[1] "2 d"  
[1] "2 e"  
[1] "3 a"  
[1] "3 b"  
[1] "3 c"  
[1] "3 d"  
[1] "3 e"  
[1] "4 a"  
[1] "4 b"  
[1] "4 c"  
[1] "4 d"  
[1] "4 e"  
[1] "5 a"  
[1] "5 b"  
[1] "5 c"  
[1] "5 d"  
[1] "5 e"
```

# for Loop

```
output_vector <- c()  
for (i in 1:5) {  
  for (j in c('a', 'b', 'c', 'd', 'e')) {  
    temp_output <- paste(i, j)  
    output_vector <- c(output_vector, temp_output)  
  }  
}
```

output\_vector

```
[1] "1 a" "1 b" "1 c" "1 d" "1 e" "2 a" "2 b" "2 c" "2 d" "2 e" "3 a"  
[12] "3 b" "3 c" "3 d" "3 e" "4 a" "4 b" "4 c" "4 d" "4 e" "5 a" "5 b"  
[23] "5 c" "5 d" "5 e"
```