

# RWorksheet 4b

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```
#1.
vectorB <- c(1,2,3,4,5)

matrixB <- matrix(0, nrow = 5, ncol = 5)
print(matrixB)

##      [,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

for(i in 1:5){
  for(j in 1:5){
    matrixB[i,j] <- abs(vectorB[i] - vectorB[j])
  }
}
print(matrixB)
```

```
##      [,1] [,2] [,3] [,4] [,5]
## [1,]    0    1    2    3    4
## [2,]    1    0    1    2    3
## [3,]    2    1    0    1    2
## [4,]    3    2    1    0    1
## [5,]    4    3    2    1    0
```

```
#2.
for(i in 1:5) {
  for(j in 1:i) {
    cat("*")
  }
  cat("\n")
}
```

```
## *
## **
## ***
## ****
## *****
```