NOME:	Gabriel Resende Menezes
TIA:	32360223
RA:	10419003
LAB:	Semana **06**

Exercicio 06

C/C++

```c
#include<stdio.h>

void soma_matrizes(int n, int m, int A[n][m], int B[n][m], int C[n][m]) {
  for(int i=0; i<n; i++) {
    for(int j=0; j<m; j++) {
      C[i][j] = A[i][j] + B[i][j];
    }
  }
}

int main() {
  int n = 2, m = 2;
  int A[2][2] = {{1, 2}, {3, 4}};
  int B[2][2] = {{5, 6}, {7, 8}};
  int C[2][2];

  soma_matrizes(n, m, A, B, C);

  printf("A soma das matrizes A e B é:\n");
  for(int i=0; i<n; i++) {
    for(int j=0; j<m; j++) {
      printf("%d ", C[i][j]);
    }
    printf("\n");
  }
  return 0;
}
```

Exercicio 07

```C/C++
#include<stdio.h>

void multiplica_matrizes(int n, int m, int p, int A[n][m], int B[m][p], int
C[n][p]) {
    for(int i=0; i<n; i++) {
        for(int j=0; j<p; j++) {
            C[i][j] = 0;
            for(int k=0; k<m; k++) {
                C[i][j] += A[i][k] * B[k][j];
            }
        }
    }
}

int main() {
    int n = 2, m = 2, p = 2;
    int A[2][2] = {{1, 2}, {3, 4}};
    int B[2][2] = {{5, 6}, {7, 8}};
    int C[2][2];

    multiplica_matrizes(n, m, p, A, B, C);

    printf("A multiplicação das matrizes A e B é:\n");
    for(int i=0; i<n; i++) {
        for(int j=0; j<p; j++) {
            printf("%d ", C[i][j]);
        }
        printf("\n");
    }

    return 0;
}
```